

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: July 11, 2002, 22:53:37 ; Search time 78.9 Seconds
(without alignments)
484,276 Million cell updates/sec

Title: US-09-700-397-3
Perfect score: 1806
Sequence: 1 MKTIQPKMHNISWAFITGL.....RRAGCWILPLVILLIKR 344

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 11107396 residues
Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
A.Geneseq_032802.*
1: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
3: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
4: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
5: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1984.DAT:*
6: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1985.DAT:*
7: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1986.DAT:*
8: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:*
9: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:*
10: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1989.DAT:*
11: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:*
12: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:*
13: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:*
14: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1993.DAT:*
15: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:*
16: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:*
17: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1996.DAT:*
18: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1997.DAT:*
19: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:*
20: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:*
21: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
22: /SIDSI/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1806	100.0	344 21	Human PRO337 prote
2	1806	100.0	344 21	Human protein SEQ
3	1806	100.0	344 22	Human PRO337 polyp
4	1806	100.0	344 22	Amino acid sequenc
5	1806	100.0	355 22	Human polypeptide
6	1799	99.6	344 21	Human SECC Clone 1
7	1799	99.6	344 21	Human PRO337 prote
8	1791.5	99.2	343 20	Human polypeptide
9	1665.5	92.2	344 22	Human protein SEQ
10	1642	90.9	313 21	Human protein SEQ
11	926.5	51.3	338 17	Rat LAMP residues

12	926.5	51.3	338 17	AAW05154	Rat LAMP residues
13	923.5	51.1	335 17	AAW05152	Human LAMP residue
14	913	50.6	361 17	AAW05172	Rat LAMP clone 6c.
15	908	50.3	308 17	AAW05157	Human LAMP residue
16	907	50.2	315 17	AAW05158	Rat LAMP residues
17	905	50.1	310 17	AAW05156	Rat mature LAMP.
18	902	49.9	304 17	AAW05155	Human mature LAMP.
19	886.5	49.1	287 17	AAW05159	Human LAMP residue
20	885.5	49.0	287 17	AAW05160	Rat LAMP residues
21	852.5	47.2	326 22	AAW05160	Amino acid sequenc
22	852.5	45.6	354 22	AAW05160	Human PRO4993 prot
23	815	45.1	352 21	AAW05162	Human LAMP residue
24	796.5	44.1	252 17	AAW05167	Human LAMP residue
25	795.5	44.0	252 17	AAW05168	Rat LAMP residues
26	720.5	39.9	281 22	ABW10253	Human cDNA seq ID
27	603	33.4	141 22	ABG13847	Novel human diagno
28	569.5	31.5	130 22	ABG13847	Novel human diagno
29	525.5	29.1	872 22	ABG13816	Novel human diagno
30	338.5	18.7	413 22	ABW69485	Novel human diagno
31	333	18.4	315 22	ABW65642	Drosophila melanog
32	306	16.9	545 22	ABW62574	Drosophila melanog
33	297.5	16.5	333 22	ABW68947	Drosophila melanog
34	288.5	16.0	1240 22	ABG03933	Novel human diagno
35	284.5	15.8	467 22	ABW63044	Drosophila melanog
36	276	15.3	848 21	AAW88565	Human NCAM 140KD 1
37	270	15.0	729 22	ABW68566	Human immunoglobul
38	269	14.9	152 22	AAW18023	Melanoma associate
39	268.5	14.9	1496 20	AAW81030	Human p53 target m
40	268.5	14.9	1496 21	AAW70469	Human peroxidasin
41	268.5	14.8	1498 22	ABW11587	Human secreted pro
42	267	14.8	58 21	AAW02771	Drosophila Robo 1
43	261	14.5	1395 20	AAW13563	Drosophila sp. ROB
44	261	14.5	1395 20	AAW08401	Drosophila melanog
45	260.5	14.4	496 22	ABW62052	

ALIGNMENTS

RESULT 1	
AAW44329	standard; Protein; 344 AA.
ID AAW44329	
AC AAW44329;	
XX	
XX	
DT 08-FEB-2001 (first entry)	
XX	
DE Human PRO337 protein sequence SEQ ID NO:523.	
XX	
KW Human; secreted protein; transmembrane protein; PRO; EST; cytosolic;	
XX	
XX expressed sequence tag; detection; cancer.	
OS Homo sapiens.	
XX	
PN WO200053756-A2.	
XX	
PD 14-SEP-2000.	
XX	
PE 18-FEB-2000; 2000MO-US04341.	
XX	
XX	
PR 08-MAR-1999; 99MO-US05028.	
PR 12-MAR-1999; 99US-0123957.	
PR 29-MAR-1999; 99US-0126773.	
PR 21-APR-1999; 99US-0130232.	
PR 28-APR-1999; 99US-0131445.	
PR 14-MAY-1999; 99US-0134287.	
PR 23-JUN-1999; 99US-0141037.	
PR 26-JUL-1999; 99US-0145966.	
PR 29-OCT-1999; 99US-0162506.	
PR 30-NOV-1999; 99MO-US28313.	
PR 02-DEC-1999; 99MO-US28551.	
PR 02-DEC-1999; 99MO-US28565.	
PR 16-DEC-1999; 99MO-US30095.	

PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 XX
 XX (GETH) GENENTECH INC.
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi CJ, Gunney AL, Hillan KJ;
 PI Kijavini IU, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA;
 PI Shelton DL, Stewart TA, Thomas D, Williams PM, Wood WJ;
 XX
 DR WPI: 2000-611443/58.
 DR N-PSDB; AAC78590.
 XX
 PT Novel PRO polypeptides and polynucleotides used in detection methods,
 PT to target bioactive molecules to specific cells, and to modulate
 PT cellular activities -
 PS
 PS Claim 12: Fig 222: 636pp; English.

CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed
 CC sequence tag) sequences which encode secreted or transmembrane PRO
 CC polypeptides. The PRO polynucleotides and polypeptides have cytostatic
 CC activity. The polynucleotides and polypeptides can be used for detecting
 CC the presence of PRO polypeptides in samples, for linking bioactive
 CC molecules to cells and for modulating biological activities of cells,
 CC using the polypeptides for specific targeting. The polypeptide targeting
 CC can be used to kill the target cells, e.g. for the treatment of cancers.
 CC The polypeptide pairs provide specific targeting of bioactive molecules
 CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
 CC the isolation of the PRO polynucleotide sequences.

XX Sequence 344 AA;

Query Match 100.0%; Score 1806; DB 21; Length 344;
 Best Local Similarity 100.0%; Pred. No. 9.9e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels -0; Gaps 0;

QY 1 MKTTPKMHNSISAIPTGTAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCITD 60
 DB 1 mktlqpkmhnsiswaitgtlaalcifgvpvrsgdatfpkamdnvtrvgesatlrcitd 60
 QY 61 NRVTRVAMLNSTLIVAGNDKWCIDPRVLLSNTOYISITONVDYDEGPTCSVQTD 120
 DB 61 nrvtrvamlnstllyagndkwcldprvllsnltqysleigvdydegptcsvqtd 120
 QY 121 NRPKTSRVHLIVQSPKIVEISSDISINEGNNISITCLATGRPEPTVTRHISPKAVGFV 180
 DB 121 nrpktsrvhlivqspkiveissdisinegnnislclatgrpeptvtrhispkavgf 180
 QY 181 SEDEYLEIOGTRREGSGDYECASNDVAPVVRKVVNTVPYISAKGTGVPVGQKGT 240
 DB 181 sedeyleiogttrregsgdyecasnvdvavrvrkvtvntvpyisakgtgvpvgqgt 240
 QY 241 LOCEASAVPSAEFQWYKDKRLIEGKRGVKNRPFLSKLIFENVSEHDYGNTCYASNK 300
 DB 241 lgeasaavpsaeefqwkdkrliegkrgvknrpfslklifenvsehdynctvasnk 300
 QY 301 LGHTNASIMLFGGAVSEVNSNGTSRRACGCVWLLPLIVLHLILKF 344
 DB 301 lghtnasimlfggavsevnsgtsrragcwwllpllvhlilkf 344

RESULT 2
 AAY57601
 ID AAY57601 standard; Protein: 344 AA.
 XX
 AC AAY57601;
 XX

DT 10-MAR-2000 (first entry)
 XX
 DE Human protein SEQ ID NO:1.
 XX
 KW Human; haematopoietic cell regulation; tissue generation; reparation;
 KW activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
 KW receptor; ligand; autoimmune; infection-related immunodeficiency;
 KW inflammatory disorder; neurological disease.
 XX
 OS Homo sapiens.
 XX
 PN WC958668-AL.
 XX
 PD 18-NOV-1999.
 XX
 PF 13-MAY-1999; 99WO-JP02485.
 XX
 PR 14-MAY-1998; 98JP-0131815.
 XX
 PA (ONCV) ONO PHARM CO LTD.

PI Fukushima D, Shibayama S, Tada H;
 XX
 DR WPI: 2000-062298/05.
 DR N-PSDB; AAZ47892, AAZ47893.
 XX
 PT New polypeptides of human origin having cell regulatory, tissue
 PT generation, coagulant and other activities -
 PS
 PS Claim 1; Page 38-40; 84pp; Japanese.

CC The present sequence represents a specifically claimed novel human
 CC protein. The novel human protein can be used in therapeutic drugs for
 CC the prevention and treatment of a broad range of disorders including
 CC autoimmune and infection-related immunodeficiency, inflammatory
 CC disorders, and neurological diseases. The novel protein is expected of
 CC having haematopoietic cell regulatory activity, tissue generation/
 CC reparation activity, activin/inhibin activity, taxis/chemotaxis activity,
 CC blood coagulation and thrombus activity, and receptor/ligand activity.

XX Sequence 344 AA;

Query Match 100.0%; Score 1806; DB 21; Length 344;
 Best Local Similarity 100.0%; Pred. No. 9.9e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTTPKMHNSISAIPTGTAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCITD 60
 DB 1 mktlqpkmhnsiswaitgtlaalcifgvpvrsgdatfpkamdnvtrvgesatlrcitd 60
 QY 61 NRVTRVAMLNSTLIVAGNDKWCIDPRVLLSNTOYISITONVDYDEGPTCSVQTD 120
 DB 61 nrvtrvamlnstllyagndkwcldprvllsnltqysleigvdydegptcsvqtd 120
 QY 121 NRPKTSRVHLIVQSPKIVEISSDISINEGNNISITCLATGRPEPTVTRHISPKAVGFV 180
 DB 121 nrpktsrvhlivqspkiveissdisinegnnislclatgrpeptvtrhispkavgf 180
 QY 181 SEDEYLEIOGTRREGSGDYECASNDVAPVVRKVVNTVPYISAKGTGVPVGQKGT 240
 DB 181 sedeyleiogttrregsgdyecasnvdvavrvrkvtvntvpyisakgtgvpvgqgt 240
 QY 241 LOCEASAVPSAEFQWYKDKRLIEGKRGVKNRPFLSKLIFENVSEHDYGNTCYASNK 300
 DB 241 lgeasaavpsaeefqwkdkrliegkrgvknrpfslklifenvsehdynctvasnk 300
 QY 301 LGHTNASIMLFGGAVSEVNSNGTSRRACGCVWLLPLIVLHLILKF 344
 DB 301 lghtnasimlfggavsevnsgtsrragcwwllpllvhlilkf 344

RESULT 3

AAU12359
 ID AAU12359 standard; Protein: 344 AA.
 XX
 AC AAU12359;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Human PRO337 polypeptide sequence.
 XX
 KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumor necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A peptide; factor VIIA; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO200140466-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000WO-US32678.
 XX
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99WO-US3095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31243.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04414.
 PR 22-FEB-2000; 2000WO-US04342.
 PR 24-FEB-2000; 2000WO-US04814.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 20-MAR-2000; 2000WO-US07532.
 PR 21-MAR-2000; 2000WO-US08439.
 PR 30-MAR-2000; 2000WO-US13705.
 PR 17-MAY-2000; 2000WO-US14042.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 10-NOV-2000; 2000WO-US30873.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W,
 PI Gertisen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX
 DR WPI: 2001-408281/43.
 DR N-PSDB; AAS21431.
 XX
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical -
 XX
 PS Claim 12: Fig 376; 813pp; English.
 XX
 CC AAU12172-AAU12446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.

CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 CC
 XX
 SQ Sequence 344 AA:

Query Match 100.0%; Score 1806; DB 22; Length 344;
 Best Local Similarity 100.0%; Pred. No. 9,9e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPKHNSISWAFITGIALCLFGVPPVRSQDATFPKAMDNVTVROGESATILKCTID 60
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 1 mktipkhnmsiswafitglaalcifgvpvrsqdatfpkamdnvtvrgesatlrctid 60
 QY 61 NRTVAVAMLNSTLYAGNDKWCIDPRVYLLSNQTQYSIEIQNVQVNDGEGYTCTVOTD 120
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 61 nrtvavamlnstllyagndkwcldprvylslntqlysieiqnvqvndggytctvotd 120
 QY 121 NRPKTSRPHLVQSPKIVESISDSINEGNNSITLCATGPREPVTWRHISPRAVGFV 180
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 121 nrpktsrphlvqspkiveisdsisnegnnstlctatgprepvtwrhispavgvf 180
 QY 181 SEDEYLEIQGITRQSGDYECASANDVAPVVRKYVTWNPPIYSBAKGTGVPYGCKGT 240
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 181 sedeyleiqgitrsgdyecasnadvapvrvrkvtwnpypiysaakgtgvpvgkgt 240
 QY 241 LQCEASVAPSAFQWYKDKRLIEGKKGVYVNRPEFSKLIFPVVSEHDVGNTCAVSNK 300
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 241 lqceasvapsaefqwydkrliegkgyvynrpefsklifpvvsehdvgntcavsnk 300
 QY 301 LGHTNASIMLRPGAVSEVSGTSRRAGCWMLLPLVHLHLKLF 344
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 Db 301 lghtnasimlrgavsevsngtsrragcwmllplvhlhlk 344

RESULT 4

AAB31204
 ID AAB31204 standard; Protein: 344 AA.

AC AAB31204;
 XX
 DT 20-APR-2001 (first entry)
 XX
 DE Amino acid sequence of human polypeptide PRO337.
 XX
 KW Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
 KW PRO185; PRO210; PRO217; PRO242; PRO288; PRO365; PRO1361; PRO1308;
 KW PRO1183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318;
 KW PRO1600; PRO9940; PRO533; PRO301; PRO337; PRO1411; PRO4356;
 KW PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
 KW PRO6309; cell death; genetic disorder; transgenic animal; gene therapy.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..28 /note= "signal peptide"
 FT
 PN WO200077037-A2.
 XX
 PD 21-DEC-2000.

PF 22-MAY-2000; 2000MO-US14042.
 XX 15-JUN-1999; 9905-0139695.
 PR 20-JUL-1999; 9905-0145070.
 PR 26-JUL-1999; 9905-0145698.
 PR 17-AUG-1999; 9905-0149396.
 PR 01-SEP-1999; 9905-020111.
 PR 08-SEP-1999; 9905-020594.
 PR 15-SEP-1999; 9905-021090.
 PR 30-NOV-1999; 9905-028313.
 PR 02-DEC-1999; 9905-028301.
 PR 02-DEC-1999; 9905-028565.
 PR 07-DEC-1999; 9905-0169495.
 PR 05-JAN-2000; 2000MO-US00219.
 PR 18-FEB-2000; 2000MO-US04341.
 PR 18-FEB-2000; 2000MO-US04342.
 PR 22-FEB-2000; 2000MO-US04414.
 PR 01-MAR-2000; 2000MO-US05601.
 PR 02-MAR-2000; 2000MO-US05841.
 PR 20-MAR-2000; 2000MO-US07377.
 PR 30-MAR-2000; 2000MO-US08439.
 PR 15-MAY-2000; 2000MO-US13358.
 PR 17-MAY-2000; 2000MO-US13705.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Bolstein DA, Desnoyers L, Eaton DL;
 XX Herrera N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Kljavin LJ, Mather JP, Napier MA, Pan J;
 PI Paoni NE, Roy M, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;
 XX WPI: 2001-050091/06.
 DR N-PSDB: AAC87037.
 XX Isolated nucleic acid molecule encoding a pro polypeptide which is a
 PT transmembrane polypeptide is useful for gene therapy and identification
 PT of related polypeptides -
 XX Claim 12: Fig 52; 244pp: English.
 PS The present sequence represents a human secreted and transmembrane
 XX polypeptide. The specification describes human polypeptides, designated
 CC PRO196, PRO444, PRO183, PRO210, PRO215, PRO217, PRO242, PRO288,
 CC PRO365, PRO361, PRO308, PRO183, PRO127, PRO419, PRO499, PRO7170,
 CC PRO248, PRO353, PRO318, PRO1600, PRO9940, PRO513, PRO301, PRO187,
 CC PRO337, PRO411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
 CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
 CC can be modulated with agents that bind to these polypeptides, resulting
 CC in the death of the cells. The polynucleotides encoding these
 CC polypeptides are useful in the recombinant production of the
 CC polypeptides, as a hybridisation probe to screen libraries to isolate
 CC homologous sequences, or to map the gene. They may also be used for
 CC analysing genetic disorders, and to produce transgenic animals which are
 CC useful for the development and screening of therapeutically useful
 CC reagents. The polynucleotides can also be used in gene therapy e.g. to
 CC replace a defective gene.
 XX Sequence 344 AA:
 SQ

Query Match 100.0%; Score 1806; DB 22; Length 344;
 Best Local Similarity 100.0%; Pred. No. 9.9e-149; Indels 0; Gaps 0;
 Matches 344; Conservative 0; Mismatches 0;

QY 1 MKTIOCKMNSISMAIFGIAALCLPQGVPRSGDAPPKAMDNVTVROGESATLRCTID 60
 DB 1 mktiockmnsiswaitqiaaolifqgvprsgdaptkamdntvtrgesatlrctid 60
 QY 61 NRTYRAVLENRSTLLYAGNDKWCIDPRVILLNTQYISLQWVDYDGGPTGCVQTD 120
 DB 61 nrtyravlelnrstlllyagndkwcidprvillntqyisltqvwdydggptgcvqtd 120

QY 121 NHPKTSRVHLIVQSPRIKVEISDISINEGNNSITCTIATGREGPEPTVTRHISPKAVGV 180
 DB 121 nhpktsrvhlivqspriksveisdisinegnnsitctiatgredpeptvtrhispkavgv 180
 QY 181 SEDDELEIFQGITRQSDSDYCSASNDVAPYRRKKTVMYPPYISEAGTGVPGQKGT 240
 DB 181 seddeleifqgitrqsdscydsasndvavprvkvtvmpypyiseagtgvpvgqgkt 240
 QY 241 LOCEASVPSAEFQWYKDDRLTEGKGVKVENRPELSKLIFNVSEHDYGYNTCVASNK 300
 DB 241 lqceasvpsaeefqwykddrlliegkgykvenrpfelsklifnvsehdgyntcvasnk 300
 QY 301 LGHTNASIMLEFGGAVSEVNGTSRRAGCWMLEPLLYHLLKRF 344
 DB 301 lghtnasimlfggavsevsngtsrragcwmlepllyhlllrf 344

RESULT 5
 ID AAM40499 standard: Protein: 355 AA.
 XX AAM40499:
 AC AAM40499:
 XX 22-OCT-2001 (first entry)
 DT Human polypeptide SEQ ID NO 5430.
 DE Human polypeptide SEQ ID NO 5430.
 XX Human, neurotrophic; immunosuppressant; cytoskeletal; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia.
 XX Homo sapiens.
 OS WO200153312-A1.
 XX 26-JUL-2001.
 PD 26-DEC-2000; 2000MO-US34263.
 PF 21-JAN-2000; 2000US-0488725.
 PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0598042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 XX (HYSE-) HXSEQ INC.
 PA Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang Z, Wang Z, Weinman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
 XX WPI: 2001-442253/47.
 DR N-PSDB: AA159655.
 XX Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 XX Example 2: SEQ ID NO 5430; 10078pp: English.
 CC The invention relates to human nucleic acids (AA157798-AA161369) and
 CC the encoded polypeptides (AAM38642-AAM42213) with neurotrophic,
 CC immunosuppressant and cytoskeletal activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as

CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
 CC utilisation of the activities such as: Immune system suppression,
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, arthritis and inflammation, leukaemias and
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.

XX Sequence 355 AA;

Query Match 100.0%; Score 1806; DB 22; Length 355;

Best Local Similarity 100.0%; Pred. No. 1e-148;

Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPKMNSISMAIFGTGLAALCLFGVYVRSQDAIFPKAMDNVYVROGESATLRCTID 60
 DB 12 mktlqpkhmnsiswalfgtglaaclfgvpyrsgdatfpkamdnvrvrgesatlrctid 71
 QY 61 NRYTRVAMLNKSTILYAGNDKWCIDPRVLLSNQTQYSIEIGNVDYDEGPTCSVQTD 120
 DB 72 nrytrvawlnrstllyagndkwcldprvllsnqtqysieignvdvdegpytcsvqtd 131
 QY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGPREPTVWRHISPKAVGFV 180
 DB 132 nhpktsrvhlilvqvspkiveissdisinegnnislctiatgpreptvwrhispkavgf 191
 QY 181 SEDEVLEIQTIREQSGDYECASNDVAAPVVRKRVYVNNPPYISEAKGTGVVGQKGT 240
 DB 192 sedevleiqgtireqsgdyecasndvaapvrvrvvnyppysisakgtgvvgqkgt 251
 QY 241 LQCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
 DB 252 lqceasavpsaefqwkdkrlliegkgykvenrpfslkllffnvsehdvgnvycvasnk 311
 QY 301 LGHTNASIMLFGPAAVSEVSNGTSSRRAGCVWLLPLVLHLHLKF 344
 DB 312 lghtnasimlfgpavsevsngtstragcvwllplvlhlhlkf 355

RESULT 6

AA19721 ID AAB19721 standard; Protein: 344 AA.

XX AC AAB19721;

XX DT 19-FEB-2001 (first entry)

XX DE Human SECX Clone 11753149.0.6-encoded protein.

XX KW SECX; human; diagnosis; therapy; cell adhesion.

XX OS Homo sapiens.

XX Key Location/Qualifiers

FT Peptide 1..33

FT Protein /label= Signal_peptide

FT Region /label= Mature_protein

FT /note= "C-terminal membrane attachment sequence"

XX PN W0200061754-A2.

XX PD 19-OCT-2000.

XX PF 07-APR-2000; 2000WO-US09392.

XX PR 09-APR-1999; 99US-0128514.

XX PR 03-MAR-2000; 2000US-0128514.

XX

PA (CURA-) CURAGEN CORP.

XX PI Fernandez E, Vernet C, Shinkets R;

XX DR WPI: 2000-679487/56.

XX N-PsDB; AAA88790.

PT SECX polypeptides and the nucleic acids that encode them, useful for

PT diagnosis, preventing and treating e.g. cancers, inflammation,

PT arthritis and immunological disorders.

PS Claim 5; Fig 2; 143pp; English.

XX The present sequence is that of the protein encoded by novel SECX
 CC Clone 11753149.0.6 (see AAA88790), which resembles rat neural cell
 CC adhesion molecule neurotrimin and human opioid binding protein/cell
 CC adhesion molecule OB-CAM. The invention provides novel SECX
 CC polynucleotides (see AAA88789-904) and the secreted or
 CC membrane-associated proteins encoded by them (see AAB19720-34).
 CC SECX polynucleotides, polypeptides and antibodies can be used in
 CC the detection, diagnosis and treatment (including gene therapy) of
 CC a broad range of pathological states.

XX Sequence 344 AA;

Query Match 99.6%; Score 1799; DB 21; Length 344;

Best Local Similarity 99.7%; Pred. No. 4e-148;

Matches 343; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MKTIQPKMNSISMAIFGTGLAALCLFGVYVRSQDAIFPKAMDNVYVROGESATLRCTID 60
 DB 1 mktlqpkhmnsiswalfgtglaaclfgvpyrsgdatfpkamdnvrvrgesatlrctid 60
 QY 61 NRYTRVAMLNKSTILYAGNDKWCIDPRVLLSNQTQYSIEIGNVDYDEGPTCSVQTD 120
 DB 61 nrytrvawlnrstllyagndkwcldprvllsnqtqysieignvdvdegpytcsvqtd 120
 QY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGPREPTVWRHISPKAVGFV 180
 DB 121 nhpktsrvhlilvqvspkiveissdisinegnnislctiatgpreptvwrhispkavgf 180
 QY 181 SEDEVLEIQTIREQSGDYECASNDVAAPVVRKRVYVNNPPYISEAKGTGVVGQKGT 240
 DB 181 sedevleiqgtireqsgdyecasndvaapvrvrvvnyppysisakgtgvvgqkgt 240
 QY 241 LQCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
 DB 241 lqceasavpsaefqwkdkrlliegkgykvenrpfslkllffnvsehdvgnvycvasnk 300
 QY 301 LGHTNASIMLFGPAAVSEVSNGTSSRRAGCVWLLPLVLHLHLKF 344
 DB 301 lghtnasimlfgpavsevsngtstragcvwllplvlhlhlkf 344

RESULT 7

AA19722 ID AAB19722 standard; Protein: 344 AA.

XX AC AAB19722;

XX DT 19-FEB-2001 (first entry)

XX DE Human SECX Clone 11753149.0.37-encoded protein.

XX KW SECX; human; diagnosis; therapy; cell adhesion.

XX OS Homo sapiens.

XX Key Location/Qualifiers

FT Peptide 1..33

FT Protein /label= Signal_peptide

FT 34..344

```

PT      /label= Mature_protein
PT      327...344
PT      Region
XX      /note= "C-terminal membrane attachment sequence"
XX      WO200061754-A2.
XX      19-OCT-2000.
XX      07-APR-2000; 2000MO-US09392.
XX      09-APR-1999; 99US-0128514.
XX      03-MAR-2000; 2000US-0128514.
XX      (CURA-) CURAGEN CORP.
XX      Fernandez E, Vernet C, Shinkens R;
XX      WPI: 2000-679487/66.
XX      N-PSDB; AAA88791.
XX      SECC polypeptides and the nucleic acids that encode them, useful for
XX      diagnosing, preventing and treating e.g. cancers, inflammation,
XX      arthritis and immunological disorders.
XX      Claim 5; Fig 3; 143pp; English.
XX      The present sequence is that of the protein encoded by novel SECC
XX      Clone 11753149.0.37 (see AAA88791), which resembles rat neural cell
XX      adhesion molecule neurotrophin and human opioid binding protein/cell
XX      adhesion molecule OBCAM. The invention provides novel SECC
XX      polynucleotides (see AAA88789-804) and the secreted or
XX      membrane-associated proteins encoded by them (see AAB19120-34).
XX      SECC polynucleotides, polypeptides and antibodies can be used in
XX      the detection, diagnosis and treatment (including gene therapy) of
XX      a broad range of pathological states.
XX      Sequence 344 AA:
SQ
Query Match          99.6%; Score 1799; DB 21; Length 344;
Best Local Similarity 99.7%; Pred. No. 4e-148; 1; Indels 0; Gaps 0;
Matches 343; Conservative 0; Mismatches 1;

QY      1 MKTIOPKMNSISWAIPTGIALCLFQGVPRSGDAPPRAMDNVTVROGESATLRCTID 60
DB      1 mktisrpkhmsiswailftgaalcifgypvrsgdalfpkamdnvtrvgesatlrctid 60
QY      61 NRYTVAMLNRSSTLLVAGNDKWCIDPRVVLISNTQYSEIQNVYDEGYSQYTD 120
DB      61 nrytvawlnrstlllyagndkwcldprvvlisnltqysleiqnvdydegysqytd 120
QY      121 NHRKTSRVHLIVQVSPKIVIESSDISINGNISILCTIATGREPTVWRHISPRAGFV 180
DB      121 nhpktsrvhlivqvspkiviesdisinngnisilctiatgreptvwrhispkavfiv 180
QY      181 SEDSEYLEIOGITREOSGDYECASNDVAPVVRKVTVNPYISAKGTGVPYQOGCT 240
DB      181 sedeyleiogitregsgdyecassndvavrvrkvtvnpyiseakgtgvpqyqgt 240
QY      241 LQCEASAVPSAEFQYKDKRLLEGKKYKAVNRPFLSKLFEFVNSHDVGNTCAVSK 300
DB      241 lqceasavpsaeefqykdkrllegkkykavnrpflsklffvnsdhvgntcavsk 300
QY      301 LGHTNASIMLFGPAVSEVNSGTSRRAGCWMILPLVLVHLILKF 344
DB      301 lghtnasimlfgpavsevsngtsrragcwmilplvlvhlilkf 344

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XX      07-DEC-1999 (first entry)
DT      Human PRO337 protein sequence.
XX      Human: PRO: ESN; expressed sequence tag; PCR primer; hybridation;
XX      probe; blood coagulation disorder; cancer; cellular adhesion disorder;
XX      secreted protein; transmembrane protein.
XX      Homo sapiens.
XX      WO9946281-A2.
XX      16-SEP-1999.
XX      08-MAR-1999; 99WO-US05028.
XX      10-MAR-1998; 98US-0077450.
XX      11-MAR-1998; 98US-0077632.
XX      11-MAR-1998; 98US-0077641.
XX      11-MAR-1998; 98US-0077649.
XX      12-MAR-1998; 98US-0077791.
XX      13-MAR-1998; 98US-0078004.
XX      17-MAR-1998; 98US-0040220.
XX      20-MAR-1998; 98US-0078886.
XX      20-MAR-1998; 98US-0078910.
XX      20-MAR-1998; 98US-0078936.
XX      20-MAR-1998; 98US-0078939.
XX      25-MAR-1998; 98US-0079294.
XX      26-MAR-1998; 98US-0079656.
XX      27-MAR-1998; 98US-0079663.
XX      27-MAR-1998; 98US-0079689.
XX      27-MAR-1998; 98US-0079728.
XX      27-MAR-1998; 98US-0079786.
XX      30-MAR-1998; 98US-0079920.
XX      30-MAR-1998; 98US-0079923.
XX      31-MAR-1998; 98US-0080105.
XX      31-MAR-1998; 98US-0080107.
XX      31-MAR-1998; 98US-0080165.
XX      31-MAR-1998; 98US-0080194.
XX      01-APR-1998; 98US-0080327.
XX      01-APR-1998; 98US-0080328.
XX      01-APR-1998; 98US-0080333.
XX      01-APR-1998; 98US-0080334.
XX      08-APR-1998; 98US-0081049.
XX      08-APR-1998; 98US-0081070.
XX      08-APR-1998; 98US-0081071.
XX      09-APR-1998; 98US-0081195.
XX      09-APR-1998; 98US-0081203.
XX      09-APR-1998; 98US-0081229.
XX      15-APR-1998; 98US-0081817.
XX      15-APR-1998; 98US-0081838.
XX      15-APR-1998; 98US-0081952.
XX      15-APR-1998; 98US-0081955.
XX      21-APR-1998; 98US-0082568.
XX      21-APR-1998; 98US-0082569.
XX      22-APR-1998; 98US-0082700.
XX      22-APR-1998; 98US-0082704.
XX      22-APR-1998; 98US-0082804.
XX      23-APR-1998; 98US-0082767.
XX      23-APR-1998; 98US-0082796.
XX      27-APR-1998; 98US-0083336.
XX      28-APR-1998; 98US-0083332.
XX      29-APR-1998; 98US-0083392.
XX      29-APR-1998; 98US-0083495.
XX      29-APR-1998; 98US-0083496.
XX      29-APR-1998; 98US-0083499.
XX      29-APR-1998; 98US-0083500.
XX      29-APR-1998; 98US-0083545.
XX      29-APR-1998; 98US-0083554.
XX      29-APR-1998; 98US-0083558.
XX      29-APR-1998; 98US-0083559.

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RESULT      8
AAV41773
ID      AAV41773 standard: Protein: 343 AA.
XX
AC      AAV41773;

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PR 30-APR-1998; 98US-0083742.
 PR 05-MAY-1998; 98US-0084366.
 PR 06-MAY-1998; 98US-0084414.
 PR 06-MAY-1998; 98US-0084441.
 PR 07-MAY-1998; 98US-0084598.
 PR 07-MAY-1998; 98US-0084600.
 PR 07-MAY-1998; 98US-0084627.
 PR 07-MAY-1998; 98US-0084637.
 PR 07-MAY-1998; 98US-0084639.
 PR 07-MAY-1998; 98US-0084640.
 PR 07-MAY-1998; 98US-0084643.
 PR 13-MAY-1998; 98US-0085323.
 PR 13-MAY-1998; 98US-0085338.
 PR 13-MAY-1998; 98US-0085339.
 PR 15-MAY-1998; 98US-0085573.
 PR 15-MAY-1998; 98US-0085579.
 PR 15-MAY-1998; 98US-0085580.
 PR 15-MAY-1998; 98US-0085582.
 PR 15-MAY-1998; 98US-0085589.
 PR 15-MAY-1998; 98US-0085697.
 PR 15-MAY-1998; 98US-0085700.
 PR 15-MAY-1998; 98US-0085704.
 PR 18-MAY-1998; 98US-0086023.
 PR 22-MAY-1998; 98US-0086392.
 PR 22-MAY-1998; 98US-0086414.
 PR 22-MAY-1998; 98US-0086430.
 PR 22-MAY-1998; 98US-0086486.
 PR 28-MAY-1998; 98US-0087098.
 PR 28-MAY-1998; 98US-0087106.
 PR 28-MAY-1998; 98US-0087208.
 PR 30-JUL-1998; 98US-0094651.
 PR 11-SEP-1998; 98US-0100038.

XX (GETH) GENENTECH INC.

XX Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;

XX WPI: 1999-551358/46.
 DR N-PSDB: AAZ34324.

XX New secreted and transmembrane polypeptides and their polynucleotides,
 PT useful for treating blood coagulation disorders, cancers and cellular
 PT adhesion disorders -

XX Claim 12; Fig 222; 530pp; English.

XX The present invention describes secreted and transmembrane polypeptides
 CC and their polynucleotides. The nucleotide sequences are useful as
 CC sources of probes, primers, for chromosome mapping, and for generation
 CC of antisense sequences. They can also be used to create transgenic
 CC animals. The proteins can be used to treat a variety of diseases and
 CC disorders, depending on their function. Diseases that may be treated
 CC include blood coagulation disorders, cancers and cellular adhesion
 CC disorders. They may also be used to raise antibodies. AAZ33891 to
 CC AAZ34338, and AA41685 to AA41774 represent polynucleotide and
 CC polypeptide sequence given in the exemplification of the present
 CC invention.

XX Sequence 343 AA;

XX Query Match 99.2%; Score 1791.5; DB 20; Length 343;
 XX Best Local Similarity 99.7%; Pred. No. 1.8e-147;

XX Matches 343; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MKTIQPKMHNISWALFTGALALCFQGVPRSGDAFFPKAMNWNVRGSESATLRCITD 60
 DB 1 mltlqpkhmsiswalfgtgaaalcifgyvprsgdaftpkamhwnvrqsesatlrcitd 60
 QY 61 NRTVAVLNRSTIVAGNDKWCIDPRVVLSTNTOTQXSIENONVVDYEGPYTOSVOTD 120
 DB 61 nrtvavlnrstllyagndkwcldprvvlstntotqxsieionvvdyeqpytotsvotd 120

QY 121 NHPKTSRVHLIVQVSPKIVEISDISINEGNNISLCTIANGREPTVWMTSPKAVGV 180
 DB 121 nhpktsrvhlivqvspkiveisdisinegnnislctiatgrpevtwrhispkavgv 180
 QY 181 SDEYLEITGIITREQSGDIECSASNDVAAPYRRVXVNTVWPYISEAGTGVPGQKGT 240
 DB 181 sdeyleitgitregsgdyecsasndvaapvrrvkvtpvpyiseagtvpgqkgt 240
 QY 241 LQCEASAVPSAEFPQWYKDKRLIECKKGKVENRPFSLKLIFFNVSEHDYGVTCVASNK 300
 DB 241 lqceasavpsaefqwydkrlieckkgkvenrpfslkllffnvsehdynvgtvasnk 300
 QY 301 LGHTNASIMLFGPGAVSEVNGTSRRACVWLLPLVLHLHLKF 344
 DB 301 lghtnasimlfgpgavsevngrtsrragc-wllplvlhlhlkf 343

RESULT 9

AAAM38713
 ID AAAM38713 standard; Protein; 344 AA.

XX AAAM38713;

XX 22-OCT-2001 (first entry)

DE Human polypeptide SEQ ID NO 1856.

XX Human; nocitropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripetral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia.

XX Homo sapiens.

XX WO200153312-A1.

XX 26-JUL-2001.

XX 26-DEC-2000; 2000WO-US34263.

XX 21-JAN-2000; 2000US-0488725.

XX 25-APR-2000; 2000US-0552317.

XX 09-JUL-2000; 2000US-0598042.

XX 19-JUL-2000; 2000US-0620312.

XX 03-AUG-2000; 2000US-0653450.

XX 14-SEP-2000; 2000US-0662191.

XX 19-OCT-2000; 2000US-0693036.

XX 29-NOV-2000; 2000US-0727344.

XX (HSE-) HSEQ INC.

XX Tang YF, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang Y;
 PI Zhao Qa, Zhou P, Goodrich R, Drmanac R;

XX WPI: 2001-442253/47.
 DR N-PSDB: AA157869.

XX Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -

XX Example 3; SEQ ID NO 1856; 10078pp; English.

XX The invention relates to human nucleic acids (AA157798-AA161369) and
 CC the encoded polypeptides (AAAM38642-AAAM42213) with nocitropic,
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic

XX	AAV57602	RESULT 10
XX	AAV57602	ID AAV57602 standard; Protein; 313 AA.
XX	AAV57602;	
XX	10-MAR-2000	(first entry)
XX	Human protein SEQ ID NO:4.	
XX	Human; haematopoietic cell regulation; tissue generation; reparation	
XX	activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;	
XX	receptor; ligand; autoimmune; infection-related immunodeficiency;	
XX	inflammatory disorder; neurological disease.	
XX	Homo sapiens.	
XX	WO958668-A1.	
XX	18-NOV-1999.	
XX	13-MAY-1999;	99WO-JP02485.
XX	14-MAY-1998;	98JP-0131815.
XX	(ONOY) ONO PHARM CO LTD.	
XX	Fukushima D, Shibayama S, Tada H;	
XX	WPI, 2000-062298/05.	
XX	N-PSDB; AA247894.	

XX

XX

PF 29-MAR-1996; 96MO-US04397.
 XX 31-MAR-1995; 95US-0414657.
 XX (UMDU-) UMDNJ UNIV NEW JERSEYS HEALTH SCI.
 PA Fischer I, Levitt PR, Pimenta A, Zhukareva V;
 PI WPI; 1996-455009/45.
 DR N-PSDB; AAT42080.
 XX DNA encoding limbic system associated membrane protein self binding
 PT domain - useful in treatment of excessive neural growth in limbic
 PT system, e.g. in animal having epilepsy, Alzheimer's disease or
 PT schizophrenia
 XX
 PS Claim 7; Page 40-42; 87pp; English.
 XX The sequences given in AAM05152-70 represent fragments of limbic system
 CC associated membrane protein (LAMP) self binding domain. LAMP is a
 CC self-binding, antibody-like cell surface adhesion protein, which causes
 CC the formation of connections between adjacent neurons. LAMP is bound by
 CC the monoclonal antibody 269 and is thought to be involved in the growth
 CC and differentiation of certain neurons. The protein is highly conserved
 CC and the human and rat sequences differ in only four amino acids. LAMP
 CC and nucleic acids, or soluble LAMP analogues, can be used to treat an
 CC animal with excessive neural growth in the limbic region, i.e. where
 CC the animal has epilepsy, Alzheimer's disease or schizophrenia. Neural
 CC stem cells transformed with an expression vector comprising one of
 CC these nucleic acids, can be used to treat neuropathologies involving
 CC the limbic system.
 XX
 SQ Sequence 338 AA;
 51.3%; Score 926.5; DB 17; Length 338;
 Query Match Best Local Similarity 55.1%; Pred. No. 2.8e-72;
 Matches 179; Conservative 60; Mismatches 81; Indels 5; Gaps 4;
 20 LAALCLF-QGVPRSGDATPKAMDNVTVRGESATLRCITIDNRYTAVAMLNSTLLIYAG 78
 17 lrlcllptglprsvd--fngtdnltrvgdtdallrcvedkskvaalnrgillfag 74
 79 NDKWCLDPKRVVLLSNTQTOYSIEIONVYVDEGPTCSVQTDNHRKTSRVHLIYOVSPI 138
 75 hdkwcldpkrevlekrhaleyslrqkvdydegysvqtdnhrktsrvhlyivpypki 134
 139 VEISSDISINGNNISLCTIATGRPEPTVWRHISPKAVGFVSEDEYLEIOGITRQSGD 198
 135 snissdvtvnegsnvlvcmangrpepvltrwhlprgrefegeeylellglttrgsgk 194
 199 YECASNDVAAVVRKRVVNVNPPYISAKGTGVVQKGTLCQCSAASVPSAEFQWYKD 258
 195 yecanevssadvkvkvtrvnpptltesksneatlgtrqaslkcaasavpdpdfeuyrd 254
 259 DKRLIEGKKGVKVENRFLSKLIFENVSEHDYGNANTCVASNKIGHNNAISIMFGGAUSE 318
 255 dtr-insangieikstegsgslvtvntveehygnycvaanklgvtnasvltftrpsvrg 313
 319 VASNGTSRRAGCWMLPLLVHLHLK 343
 314 l-ngsislavpmlilaasllcllsk 337
 Db
 RESULT 12
 AAM05154
 ID AAM05154 standard; Protein; 338 AA.
 XX AAM05154;
 AC
 XX 22-MAY-1997 (first entry)
 DT
 XX Rat LAMP residues 1-332.

XX limbic system associated membrane protein; LAMP; self binding domain;
 KW antibody-like; cell surface adhesion protein; neuron;
 KW monoclonal antibody; 269; growth; differentiation; epilepsy;
 KW Alzheimer's disease; schizophrenia; neural stem cell.
 XX Rattus rattus.
 OS
 XX Key Location/Qualifiers
 FH 1..28
 FT Peptide /note="Signal peptide"
 FT 29..338
 FT Protein /note="Mature protein"
 XX
 PN W09630052-A1.
 PD 03-OCT-1996.
 XX
 PF 29-MAR-1996; 96MO-US04397.
 XX 31-MAR-1995; 95US-0414657.
 XX (UMDU-) UMDNJ UNIV NEW JERSEYS HEALTH SCI.
 PA Fischer I, Levitt PR, Pimenta A, Zhukareva V;
 PI WPI; 1996-455009/45.
 DR N-PSDB; AAT42081.
 XX DNA encoding limbic system associated membrane protein self binding
 PT domain - useful in treatment of excessive neural growth in limbic
 PT system, e.g. in animal having epilepsy, Alzheimer's disease or
 PT schizophrenia
 XX
 PS Claim 4; Page 43-45; 87pp; English.
 XX The sequences given in AAM05152-70 represent fragments of limbic system
 CC associated membrane protein (LAMP) self binding domain. LAMP is a
 CC self-binding, antibody-like cell surface adhesion protein, which causes
 CC the formation of connections between adjacent neurons. LAMP is bound by
 CC the monoclonal antibody 269 and is thought to be involved in the growth
 CC and differentiation of certain neurons. The protein is highly conserved
 CC and the human and rat sequences differ in only four amino acids. LAMP
 CC and nucleic acids, or soluble LAMP analogues, can be used to treat an
 CC animal with excessive neural growth in the limbic region, i.e. where
 CC the animal has epilepsy, Alzheimer's disease or schizophrenia. Neural
 CC stem cells transformed with an expression vector comprising one of
 CC these nucleic acids, can be used to treat neuropathologies involving
 CC the limbic system.
 XX
 SQ Sequence 338 AA;
 51.3%; Score 926.5; DB 17; Length 338;
 Query Match Best Local Similarity 55.1%; Pred. No. 2.8e-72;
 Matches 179; Conservative 60; Mismatches 81; Indels 5; Gaps 4;
 20 LAALCLF-QGVPRSGDATPKAMDNVTVRGESATLRCITIDNRYTAVAMLNSTLLIYAG 78
 17 lrlcllptglprsvd--fngtdnltrvgdtdallrcvedkskvaalnrgillfag 74
 79 NDKWCLDPKRVVLLSNTQTOYSIEIONVYVDEGPTCSVQTDNHRKTSRVHLIYOVSPI 138
 75 hdkwcldpkrevlekrhaleyslrqkvdydegysvqtdnhrktsrvhlyivpypki 134
 139 VEISSDISINGNNISLCTIATGRPEPTVWRHISPKAVGFVSEDEYLEIOGITRQSGD 198
 135 snissdvtvnegsnvlvcmangrpepvltrwhlprgrefegeeylellglttrgsgk 194
 199 YECASNDVAAVVRKRVVNVNPPYISAKGTGVVQKGTLCQCSAASVPSAEFQWYKD 258
 195 yecanevssadvkvkvtrvnpptltesksneatlgtrqaslkcaasavpdpdfeuyrd 254
 Db

Fri Jul 12 08:37:55 2002

us-09-700-397-3.rag

Page 12

PI Fukushima D, Shibayama S, Tada H;
 XX
 DR WPI; 2000-062298/05.
 DR P-PSDB; AAY57601.
 XX
 PT New polypeptides of human origin having cell regulatory, tissue
 generation, coagulant and other activities -
 XX
 PS Claim 4; Page 41; 84pp; Japanese.
 CC
 CC The present sequence encodes a specifically claimed novel human protein.
 CC The novel human protein can be used in therapeutic drugs for the
 CC prevention and treatment of a broad range of disorders including
 CC autoimmune and infection-related immunodeficiency, inflammatory
 CC disorders, and neurological diseases. The novel protein is expected of
 CC having haematopoietic cell regulatory activity, tissue generation/
 CC reparation activity, activin/inhibin activity, taxis/chemotaxis activity,
 CC blood coagulation and thrombus activity, and receptor/ligand activity.
 XX
 XX Sequence 1032 BP; 267 A; 281 C; 270 G; 214 T; 0 other;

Query Match 100.0%; Score 1032; DB 21; Length 1032;
 Best Local Similarity 100.0%; Pred. No. 6, 1e-310;
 Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaaaaccatccagcaaaaatgcaattctatctcttggcaattctacgggctg 60
 Db 1 atgaaaaccatccagcaaaaatgcaattctatctcttggcaattctacgggctg 60
 QY 61 gctgctgtgtcttcttccagaggtgcccgtgcgacggagagagagcaccctcccaaa 120
 Db 61 gctgctgtgtcttcttccagaggtgcccgtgcgacggagagagagcaccctcccaaa 120
 QY 121 gctatggacaacgtgacggtccggcaggggagagagcaccctcaggtgacattgac 180
 Db 121 gctatggacaacgtgacggtccggcaggggagagagcaccctcaggtgacattgac 180
 QY 161 aaccgggtaccgggtgctgctgctaaacggcagcaccatctctatgctggaaatgac 240
 Db 161 aaccgggtaccgggtgctgctgctaaacggcagcaccatctctatgctggaaatgac 240
 QY 241 aagtgtgctgtgacatctgcgtgctctcttctgagcaaaccaagcagatgaagatc 300
 Db 241 aagtgtgctgtgacatctgcgtgctctcttctgagcaaaccaagcagatgaagatc 300
 QY 301 gagatccagaacgtgagatgtgtatgacagagggcccttaacactgctggtagacagac 360
 Db 301 gagatccagaacgtgagatgtgtatgacagagggcccttaacactgctggtagacagac 360
 QY 361 aaccacccaaagacctctaggtccacactattgtgcaagtatctccaaattgtagag 420
 Db 361 aaccacccaaagacctctaggtccacactattgtgcaagtatctccaaattgtagag 420
 QY 421 attcttcagatatctccatlaatgaaggaacaattatagacctaccctgataagacatt 480
 Db 421 attcttcagatatctccatlaatgaaggaacaattatagacctaccctgataagacatt 480
 QY 481 ggtagaccagagcctcaggttacttggagacacatctctccaaagcggttggcttgg 540
 Db 481 ggtagaccagagcctcaggttacttggagacacatctctccaaagcggttggcttgg 540
 QY 541 agtgaagacgaatacttgaattcaggagatcaccgggagcagtaaggagactagag 600
 Db 541 agtgaagacgaatacttgaattcaggagatcaccgggagcagtaaggagactagag 600
 QY 601 tgcagtgcctccaatgaacgtgacgcccgtgtgtaacgagagtaaaaggtcacccgtgaac 660
 Db 601 tgcagtgcctccaatgaacgtgacgcccgtgtgtaacgagagtaaaaggtcacccgtgaac 660
 QY 661 taccacacatacttccagaagcgaaggttaacaggtgtcccgctgggacaaagggagaa 720
 Db 661 taccacacatacttccagaagcgaaggttaacaggtgtcccgctgggacaaagggagaa 720

QY 721 ctgcaggtgtgaagcctcagcaagctcccccacgaacaattccagtgtagaagatgacaaa 780
 Db 721 ctgcaggtgtgaagcctcagcaagctcccccacgaacaattccagtgtagaagatgacaaa 780
 QY 781 agactgtatgaagaaagaggggtgaagtggaacacagacattctctcctcaaaactc 840
 Db 781 agactgtatgaagaaagaggggtgaagtggaacacagacattctctcctcaaaactc 840
 QY 841 atctcttcaatctctctgaacatactatggaactatggaactatggtggtcctcaaaaag 900
 Db 841 atctcttcaatctctctgaacatactatggaactatggaactatggtggtcctcaaaaag 900
 QY 901 ctggagccacacaaatccagcctcagctatgtattgttccagggcgctgaagggatgacg 960
 Db 901 ctggagccacacaaatccagcctcagctatgtattgttccagggcgctgaagggatgacg 960
 QY 961 aacggcagctcgaagggagggcagctgctgctgctgctgctcttctgtcttgcacctg 1020
 Db 961 aacggcagctcgaagggagggcagctgctgctgctgctgctcttctgtcttgcacctg 1020
 QY 1021 ctcttcaattt 1032
 Db 1021 ctcttcaattt 1032

RESULT 2
 AA234324
 ID AA234324 standard; cDNA; 1679 BP.
 XX
 AC AA234324;
 DT 07-DEC-1999 (first entry)
 XX
 DE Human PRO337 nucleotide sequence.
 KW Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
 KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;
 KW secreted protein; transmembrane protein; ss.
 OS Homo sapiens.
 XX
 PN W09946281-A2.
 PD 16-SEP-1999.
 XX
 PE 08-MAR-1999; 99WO-0505028.
 XX
 PR 10-MAR-1998; 98US-0077450.
 PR 11-MAR-1998; 98US-0077632.
 PR 11-MAR-1998; 98US-0077641.
 PR 11-MAR-1998; 98US-0077649.
 PR 12-MAR-1998; 98US-0077791.
 PR 13-MAR-1998; 98US-0078004.
 PR 17-MAR-1998; 98US-0040220.
 PR 20-MAR-1998; 98US-0078886.
 PR 20-MAR-1998; 98US-0078910.
 PR 20-MAR-1998; 98US-0078936.
 PR 20-MAR-1998; 98US-0078939.
 PR 25-MAR-1998; 98US-0079294.
 PR 26-MAR-1998; 98US-0079656.
 PR 27-MAR-1998; 98US-0079663.
 PR 27-MAR-1998; 98US-0079664.
 PR 27-MAR-1998; 98US-0079689.
 PR 27-MAR-1998; 98US-0079728.
 PR 27-MAR-1998; 98US-0079786.
 PR 30-MAR-1998; 98US-0079920.
 PR 30-MAR-1998; 98US-0079923.
 PR 31-MAR-1998; 98US-0080105.
 PR 31-MAR-1998; 98US-0080107.
 PR 31-MAR-1998; 98US-0080165.
 PR 31-MAR-1998; 98US-0080194.
 PR 01-APR-1998; 98US-0080327.

PR 01-APR-1998; 98US-0080328.
 PR 01-APR-1998; 98US-0080333.
 XX
 PR 01-APR-1998; 98US-0080334.
 PR 08-APR-1998; 98US-0081049.
 PR 08-APR-1998; 98US-0081070.
 PR 08-APR-1998; 98US-0081071.
 PR 09-APR-1998; 98US-0081195.
 PR 09-APR-1998; 98US-0081203.
 PR 09-APR-1998; 98US-0081227.
 PR 15-APR-1998; 98US-0081817.
 PR 15-APR-1998; 98US-0081838.
 PR 15-APR-1998; 98US-0081957.
 PR 15-APR-1998; 98US-0081957.
 PR 21-APR-1998; 98US-0082569.
 PR 22-APR-1998; 98US-0082700.
 PR 22-APR-1998; 98US-0082704.
 PR 22-APR-1998; 98US-0082804.
 PR 23-APR-1998; 98US-0082767.
 PR 27-APR-1998; 98US-0083336.
 PR 28-APR-1998; 98US-0083322.
 PR 29-APR-1998; 98US-0083392.
 PR 29-APR-1998; 98US-0083495.
 PR 29-APR-1998; 98US-0083496.
 PR 29-APR-1998; 98US-0083499.
 PR 29-APR-1998; 98US-0083500.
 PR 29-APR-1998; 98US-0083545.
 PR 29-APR-1998; 98US-0083554.
 PR 29-APR-1998; 98US-0083558.
 PR 29-APR-1998; 98US-0083559.
 PR 30-APR-1998; 98US-0083742.
 PR 05-MAY-1998; 98US-0083366.
 PR 06-MAY-1998; 98US-0084414.
 PR 06-MAY-1998; 98US-0084441.
 PR 07-MAY-1998; 98US-0084598.
 PR 07-MAY-1998; 98US-0084600.
 PR 07-MAY-1998; 98US-0084627.
 PR 07-MAY-1998; 98US-0084637.
 PR 07-MAY-1998; 98US-0084639.
 PR 07-MAY-1998; 98US-0084640.
 PR 07-MAY-1998; 98US-0084643.
 PR 13-MAY-1998; 98US-0085323.
 PR 13-MAY-1998; 98US-0085338.
 PR 13-MAY-1998; 98US-0085339.
 PR 15-MAY-1998; 98US-0085573.
 PR 15-MAY-1998; 98US-0085579.
 PR 15-MAY-1998; 98US-0085580.
 PR 15-MAY-1998; 98US-0085582.
 PR 15-MAY-1998; 98US-0085689.
 PR 15-MAY-1998; 98US-0085697.
 PR 15-MAY-1998; 98US-0085700.
 PR 15-MAY-1998; 98US-0085704.
 PR 18-MAY-1998; 98US-0086023.
 PR 22-MAY-1998; 98US-0086392.
 PR 22-MAY-1998; 98US-0086414.
 PR 22-MAY-1998; 98US-0086430.
 PR 22-MAY-1998; 98US-0086486.
 PR 28-MAY-1998; 98US-0087098.
 PR 28-MAY-1998; 98US-0087106.
 PR 28-MAY-1998; 98US-0087208.
 PR 30-JUL-1998; 98US-0094651.
 PR 11-SEP-1998; 98US-0100038.

XX (GETH) GENENTECH INC.

XX Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;

XX WPI, 1999-551358/46.

DR P-PSDB; AAY41773.

PT New secreted and transmembrane polypeptides and their polynucleotides,
 useful for treating blood coagulation disorders, cancers and cellular

PT adhesion disorders -
 XX
 PS Claim 2; Fig 221; 530pp; English.

CC The present invention describes secreted and transmembrane polypeptides
 CC and their polynucleotides. The nucleotide sequences are useful as
 CC sources of probes, primers, for chromosome mapping, and for generation
 CC of antisense sequences. They can also be used to create transgenic
 CC animals. The proteins can be used to treat a variety of diseases and
 CC disorders, depending on their function. Diseases that may be treated
 CC include blood coagulation disorders, cancers and cellular adhesion
 CC disorders. They may also be used to raise antibodies. AA23891 to
 CC AA234338, and AAY41685 to AAY41774 represent polynucleotide and
 CC polypeptide sequence given in the exemplification of the present
 CC invention.

XX Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Query Match 100.0%; Score 1032; DB 20; Length 1679;
 Best Local Similarity 100.0%; Pred. No. Be-310;
 Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaaaccatccagccaaatgacacattctctcttgggcaatcttaagggctg 60
 Db 13 atgaaaccatccagccaaatgacacattctctcttgggcaatcttaagggctg 133

QY 61 gctgctctgtctcttccaaggagtgccgctgagcagcgagatccaccttcccaaa 120
 Db 194 gctgctctgtctcttccaaggagtgccgctgagcagcgagatccaccttcccaaa 253

QY 121 gctatgacaacgtgacggtccgagagggagagccacccataggtgacattgac 180
 Db 254 gctatgacaacgtgacggtccgagagggagagccacccataggtgacattgac 313

QY 181 aaccgggtccgggtggtccgtgcttaaccgcagccatctctatgctgggaatgac 240
 Db 314 aaccgggtccgggtggtccgtgcttaaccgcagccatctctatgctgggaatgac 373

QY 241 aagtggtcctggtatcctgcgtgcttcttggacaaccccaagcagatagcattc 300
 Db 374 aagtggtcctggtatcctgcgtgcttcttggacaaccccaagcagatagcattc 433

QY 301 gagatccaagacgtgtagatgtagacaagggcccttaacctgctggtgcaagacgac 360
 Db 434 gagatccaagacgtgtagatgtagacaagggcccttaacctgctggtgcaagacgac 493

QY 361 aaccaccagaagccttaggttcacactatgttgcaagatctcccaaatgttagag 420
 Db 494 aaccaccagaagccttaggttcacactatgttgcaagatctcccaaatgttagag 553

QY 421 attcttcagatattccattatgaagggaacatatattagcttaactgataagcaact 480
 Db 554 attcttcagatattccattatgaagggaacatatattagcttaactgataagcaact 613

QY 481 ggtgacccaagagctacggttacttggagacacatctctcccaagcgggtgtgttg 540
 Db 614 ggtgacccaagagctacggttacttggagacacatctctcccaagcgggtgtgttg 673

QY 541 agtaagaagcaatcacttgaatccagggcatcaccgggagcagtaaggagatagag 600
 Db 674 agtaagaagcaatcacttgaatccagggcatcaccgggagcagtaaggagatagag 733

QY 601 tgcagtgctcccaatgacgtggtccggtgtagtgcagagagtaagagtaacgtgaac 660
 Db 734 tgcagtgctcccaatgacgtggtccggtgtagtgcagagagtaagagtaacgtgaac 793

QY 661 tatccacacataatttcagaagccaaggtgacaggtgtcccggtggacaagaggagaca 720
 Db 794 tatccacacataatttcagaagccaaggtgacaggtgtcccggtggacaagaggagaca 853

QY 721 ctgcagtgtaagctcagcagctccctcagcagatccagtggttaagaagatgacaaa 780


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Db      494 aacaccccaagacccctctaggctccactctctgtgcaagtactcccaaatctgtgag 553
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Oy      421 attcttcagatatactccatataatgaaggaacataatagacctgcatgacaact 480
      |||
Db      554 attcttcagatatactccatataatgaaggaacataatagacctgcatgacaact 613
      |||
Oy      481 ggtgaccagaagcctcaggttactcttgagacacatctctccaaagcggttgcttg 540
      |||
Db      614 ggtgaccagaagcctcaggttactcttgagacacatctctccaaagcggttgcttg 673
      |||
Oy      541 agtgaagacaatctctgaagaaatctgaaggaatcccggaagcaatcccggaagcaat 600
      |||
Db      674 agtgaagacaatctctgaagaaatctgaaggaatcccggaagcaatcccggaagcaat 733
      |||
Oy      601 tgcagtgctcctcaatgacgtgagcgccgctgtgacaggaaggaatgacacgttaac 660
      |||
Db      734 tgcagtgctcctcaatgacgtgagcgccgctgtgacaggaaggaatgacacgttaac 793
      |||
Oy      661 taccaccatacattcagaagcaaggtgacaggtgctcccgctggagcaaaaggggaca 720
      |||
Db      794 taccaccatacattcagaagcaaggtgacaggtgctcccgctggagcaaaaggggaca 853
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Oy      721 ctgcagtgtagaagcctccagcagctccctccgaggaattccagtgtagaaggaacaa 780
      |||
Db      854 ctgcagtgtagaagcctccagcagctccctccgaggaattccagtgtagaaggaacaa 913
      |||
Oy      781 agactgtagaaggaaggaaggggtgaaggtgaagaaacagccttctctcaaacctc 840
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Db      914 agactgtagaaggaaggaaggggtgaaggtgaagaaacagccttctctcaaacctc 973
      |||
Oy      841 attcttctcaatgctctctgaacatgacttggaactacacttgctggtccctcagaacag 900
      |||
Db      974 attcttctcaatgctctctgaacatgacttggaactacacttgctggtccctcagaacag 1033
      |||
Oy      901 ctgggacacacacacacacacacacacacacacacacacacacacacacacacacac 960
      |||
Db      1034 ctgggacacacacacacacacacacacacacacacacacacacacacacacacacac 1093
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Oy      961 aacggcagctcgaaggaaggaaggtgctgctgctgctcctctctgtctgtgacactg 1020
      |||
Db      1094 aacggcagctcgaaggaaggaaggtgctgctgctgctcctctctgtctgtgacactg 1153
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Oy      1021 ctctcaaat 1032
      |||
Db      1154 ctctcaaat 1165
      |||

```

RESULT 5
AAC87037
ID AAC87037 standard; CDNA; 1679 BP.

AC AAC87037;
XX
XX
DT 20-APR-2001 (first entry)
XX
XX

DE Nucleotide sequence of human polypeptide PRO337.

XX Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
KM PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO365; PRO1361; PRO1308;
KM PRO183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318;
KM PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
KM PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
KM PRO6309; cell death; genetic disorder; transgenic animal; gene therapy;
KM ss.
XX
XX
OS Homo sapiens.
XX
XX

Key Location/Qualifiers
FH 134..1168
FT /tag=a
FT sig_peptide 134..216
FT /*tag=b

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XX      15-JUN-1999; 99US-0139695.
PN      WO200077037-A2.
XX      20-JUL-1999; 99US-0145070.
XX      26-JUL-1999; 99US-0145698.
PD      17-AUG-1999; 99US-0149396.
XX      01-SEP-1999; 99WO-US20111.
XX      08-SEP-1999; 99WO-US20594.
XX      15-SEP-1999; 99WO-US21090.
XX      15-SEP-1999; 99WO-US21547.
XX      30-NOV-1999; 99WO-US28313.
XX      01-DEC-1999; 99WO-US28301.
XX      02-DEC-1999; 99WO-US28565.
XX      07-DEC-1999; 99US-0169495.
XX      05-JAN-2000; 2000WO-US00219.
XX      18-FEB-2000; 2000WO-US04341.
XX      18-FEB-2000; 2000WO-US04342.
XX      22-FEB-2000; 2000WO-US04414.
XX      01-MAR-2000; 2000WO-US05601.
XX      02-MAR-2000; 2000WO-US05841.
XX      20-MAR-2000; 2000WO-US07377.
XX      30-MAR-2000; 2000WO-US08439.
XX      15-MAY-2000; 2000WO-US13358.
XX      17-MAY-2000; 2000WO-US13705.
XX      (GENTH ) GENENTECH INC.
XX      Ashtkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL,
XX      Ferrara N, Fong S, Gao W, Gettel H, Gerritsen ME, Goddard A,
XX      Godowski PJ, Gurney AL, Kiyaviri IU, Mather JP, Napier MA, Pan J,
XX      Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PW,
XX      Wood WI, Zhang Z;
XX      WPI: 2001-050991/06.
XX      P-PSDB: AAB31204.
XX      DR
XX      PT Isolated nucleic acid molecule encoding a PRO polypeptide which is a
XX      PT transmembrane polypeptide is useful for gene therapy and identification
XX      of related polypeptides -
XX      PS
XX      Claim 2; Fig 51; 24pp; English.
XX      CC The present sequence encodes a human secreted and transmembrane
XX      CC polypeptide. The specification describes human polypeptides, designated
XX      CC PRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288,
XX      CC PRO365, PRO1361, PRO1308, PRO183, PRO1272, PRO1419, PRO4999, PRO7170,
XX      CC PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187,
XX      CC PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
XX      CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
XX      CC can be modulated with agents that bind to these polypeptides, resulting
XX      CC in the death of the cells. The polynucleotides encoding these
XX      CC polypeptides are useful in the recombinant production of the
XX      CC polypeptides, as a hybridisation probe to screen libraries to isolate
XX      CC homologous sequences, or to map the gene. They may also be used for
XX      CC analysing genetic disorders, and to produce transgenic animals which are
XX      CC useful for the development and screening of therapeutically useful
XX      CC reagents. The polynucleotides can also be used in gene therapy e.g. to
XX      CC replace a defective gene.
XX      SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

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Oy      1 atgaaacacatccagcacaacaaatgcacaaatctatctctggcacaatcttcacgggctg 60
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Db 134 atgaaacacatccagccaaaatgcaattctatctcttgggcaattctccagggctg 193
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 Db 194 gctgctctgttctctccaaagagtgcccggtgacgagcggaatccacattcccaaa 253
 QY 121 gctatgacaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 180
 Db 254 gctatgacaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 313
 QY 181 aaccgggtcacccgggtgacgtgctccgagggagagcgccacccctcagtgacatctaac 240
 Db 314 aaccgggtcacccgggtgacgtgctccgagggagagcgccacccctcagtgacatctaac 373
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 Db 374 aagtggtgctgacgtgctcgtggtgcttcttgagacaccccaacccagagagagtc 433
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 Db 434 gagatccagaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 493
 QY 361 aaccaccccaagacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 420
 Db 494 aaccaccccaagacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 553
 QY 421 attcttcagatctccatctaatgaaagagacatctcccaaacgtgacatctaac 480
 Db 554 attcttcagatctccatctaatgaaagagacatctcccaaacgtgacatctaac 613
 QY 481 ggtagaccagaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 540
 Db 614 ggtagaccagaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 673
 QY 541 agtgaagaacgaatacttggaaatctgaagagacatcccgaggagagcgagagagagag 600
 Db 674 agtgaagaacgaatacttggaaatctgaagagacatcccgaggagagcgagagagagag 733
 QY 601 tgcagtgctcccaatgacgtgacgtgctccgagggagagcgagagagagagagagag 660
 Db 734 tgcagtgctcccaatgacgtgacgtgctccgagggagagcgagagagagagagagag 793
 QY 661 tatccacatacatctccaaagacgaaggtgacaggtgctcccggtggagacaaagggagac 720
 Db 794 tatccacatacatctccaaagacgaaggtgacaggtgctcccggtggagacaaagggagac 853
 QY 721 ctgcagtgacgaacgtgacgtgctcccgaggaacattccagtggtacaaagagagacaa 780
 Db 854 ctgcagtgacgaacgtgacgtgctcccgaggaacattccagtggtacaaagagagacaa 913
 QY 781 agactgattgaaggaagaaaggggtgaaggtgaaagtgaaagacacattctccctcaaaact 840
 Db 914 agactgattgaaggaagaaaggggtgaaggtgaaagtgaaagacacattctccctcaaaact 973
 QY 841 attcttctcaatgtctctgaacatgacatgaggaactgaacttgggtgctcccaaaag 900
 Db 974 attcttctcaatgtctctgaacatgacatgaggaactgaacttgggtgctcccaaaag 1033
 QY 901 ctgggac 960
 Db 1034 ctgggac 1093
 QY 961 aacgggaacgtgacgaagggagaggtgacgtgctcccggtgacgtgctcccggtgac 1020
 Db 1094 aacgggaacgtgacgaagggagaggtgacgtgctcccggtgacgtgctcccggtgac 1153
 QY 1021 ctctctcaaat 1032
 Db 1154 ctctctcaaat 1165

RESULT 6
 AAZ47893

ID AAZ47893 standard; cDNA; 1693 BP.
 AC AAZ47893;
 DT 10-MAR-2000 (first entry)
 DE Human protein encoding cDNA SEQ ID NO:3.
 KW Human; haematopoietic cell regulation; tissue generation; repair; reparation;
 KW activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
 KW receptor; ligand; autoimmune; infection-related immunodeficiency;
 KW inflammatory disorder; neurological disease; ss.
 OS Homo sapiens.
 XX
 XX
 FH Key Location/Qualifiers
 FT CDS 214..1164
 FT /*tag= a
 XX
 XX
 PN MO9958668-A1.
 XX
 PD 18-NOV-1999.
 XX
 PF 13-MAY-1999; 99MO-JP02485.
 XX
 PR 14-MAY-1998; 98JP-0131815.
 XX
 PA (ONOX) ONO PHARM CO LTD.
 XX
 PI Fukushima D, Shibayama S, Tada H;
 DR
 DR MPI: 2000-062298/05.
 XX
 XX P-PSDB; AAY57601.
 PT
 PT New polypeptides of human origin having cell regulatory, tissue
 generation, coagulant and other activities -
 PS
 PS Claim 5; Page 42-45; 84pp; Japanese.
 XX
 CC The present sequence encodes a specifically claimed novel human protein.
 CC The novel human protein can be used in therapeutic drugs for the
 CC prevention and treatment of a broad range of disorders including
 CC autoimmune and infection-related immunodeficiency, inflammatory
 CC disorders, and neurological diseases. The novel protein is expected of
 CC having haematopoietic cell regulatory activity, tissue generation/
 CC reparation activity, activin/inhibin activity, taxis/chemotaxis activity,
 CC blood coagulation and thrombus activity, and receptor/ligand activity.
 CC
 XX
 XX Sequence 1693 BP; 518 A; 432 C; 416 G; 327 T; 0 other;
 SQ
 Query Match 100.0%; Score 1032; DB 21; Length 1693;
 Best Local Similarity 100.0%; Pred. No. 8e-310;
 Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 atgaaacacatccagccaaaatgcaattctatctcttgggcaattctccagggctg 60
 Db 130 atgaaacacatccagccaaaatgcaattctatctcttgggcaattctccagggctg 189
 QY 61 gctgctctgttctctccaaagagtgcccggtgacgagcggaatccacattcccaaa 120
 Db 190 gctgctctgttctctccaaagagtgcccggtgacgagcggaatccacattcccaaa 249
 QY 121 gctatgacaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 180
 Db 250 gctatgacaacgtgacgtgctccgagggagagcgccacccctcagtgacatctaac 309
 QY 181 aaccgggtcacccgggtgacgtgctccgagggagagcgccacccctcagtgacatctaac 240
 Db 310 aaccgggtcacccgggtgacgtgctccgagggagagcgccacccctcagtgacatctaac 369
 QY 241 aagtggtgctgacgtgctcgtggtgcttcttgagacaccccaacccagagagagtc 300

Db 370 aagtggtgctggaatcctgcgtggtctcttgagcaaccccaacgagtaagcattc 429
 QY 301 gagatccagaacgtgtgatatgacagaggcccttacacgtctcgtgtgacagac 360
 Db 430 gagatccagaacgtgtgatatgacagaggcccttacacgtctcgtgtgacagac 469
 QY 361 aaccaccccaagaccttaggggttcacactatgtgcaaglatcccaaatgttagag 420
 Db 490 aaccaccccaagaccttaggggttcacactatgtgcaaglatcccaaatgttagag 549
 QY 421 attcttcagatattcccatatgaagggacaattatgacctacgtcattgacact 460
 Db 550 attcttcagatattcccatatgaagggacaattatgacctacgtcattgacact 609
 QY 481 ggttagaccagaagcctcagttacttgagacacatctctcccaagcgtttggtgtg 540
 Db 610 ggttagaccagaagcctcagttacttgagacacatctctcccaagcgtttggtgtg 669
 QY 541 agtgaagacaatcttgaatattaggggtacaccccgaggagcagtgaggtacagag 600
 Db 670 agtgaagacaatcttgaatattaggggtacaccccgaggagcagtgaggtacagag 729
 QY 601 tgcagtgctcccaatagcgtgacgagccgtgtgtaaggagagtaaggtacacgtgac 660
 Db 730 tgcagtgctcccaatagcgtgacgagccgtgtgtaaggagagtaaggtacacgtgac 789
 QY 661 tatccaccatacattcagaagccaaggggtacaggtgtcccggtgagcaaaaggagac 720
 Db 790 tatccaccatacattcagaagccaaggggtacaggtgtcccggtgagcaaaaggagac 849
 QY 721 ctgcaagtgtgaagccctcagcagctccctccagcagaattccagtggtacaaagagaa 780
 Db 850 ctgcaagtgtgaagccctcagcagctccctccagcagaattccagtggtacaaagagaa 909
 QY 781 agactgtattgaagaaagaaaggggtgaagtgaaagtaaaagaccccttcctccaacac 840
 Db 910 agactgtattgaagaaagaaaggggtgaagtgaaagtaaaagaccccttcctccaacac 969
 QY 841 attcttcaatgtctctgaacatgacatgaggaactacacttgctgtgctcccaacag 900
 Db 970 attcttcaatgtctctgaacatgacatgaggaactacacttgctgtgctcccaacag 1029
 QY 901 ctggggcacaaccaatgacagatcattgttgcagaggcgccgtacagaggtgagc 960
 Db 1030 ctggggcacaaccaatgacagatcattgttgcagaggcgccgtacagaggtgagc 1089
 QY 961 aacggcagctcagagagggcagcgtgctgtgctgtcctcctcgtcgtcctgacacgtg 1020
 Db 1090 aacggcagctcagagagggcagcgtgctgtgctgtcctcctcgtcgtcctgacacgtg 1149
 QY 1021 ctctcaaat 1032
 Db 1150 ctctcaaat 1161

RESULT 7
 AAA88790
 ID AAA88790 standard: cDNA: 1603 BP.
 AC AAA88790:
 DT 19-FEB-2001 (first entry)
 XX Human SECX cDNA Clone 11753149.0.6.
 KW SECX; human; diagnosis; gene therapy; cell adhesion; ss.
 OS Homo sapiens.
 XX Key Location/Qualifiers
 FT CDS 92..1126
 FT sig_peptide 92..190

FT mat_peptide /*tag- b
 FT 191..1123 /*tag- c
 PN WO20061754-A2.
 PD 19-OCT-2000.
 PP 07-APR-2000; 2000WO-US09392.
 PR 09-APR-1999; 99US-0128514.
 PR 03-MAR-2000; 2000US-0128514.
 PA (CURA-) CURAGEN CORP.
 PI Fernandez E, Vernet C, Shinkets R;
 DR WPI: 2000-679487/66.
 DR P-PSDB; AAB19721.
 PT SECX polypeptides and the nucleic acids that encode them, useful for
 PT diagnosing, preventing and treating e.g. cancers, inflammation,
 PT arthritis and immunological disorders -
 PS Claim 14; Fig 2; 143pp; English.
 CC The present sequence is that of SECX clone 11753149.0.6, which
 CC resembles rat neural cell adhesion molecule neurorlin and human
 CC ovoid binding protein/cell adhesion molecule OBAM. The clone
 CC was initially identified in human foetal brain tissue. The
 CC invention provides novel SECX polynucleotides (see AAA88789-804) and
 CC the secreted or membrane-associated proteins encoded by them
 CC (see AAB19720-34). SECX polynucleotides, polypeptides and antibodies
 CC can be used in the detection, diagnosis and treatment (including
 CC gene therapy) of a broad range of pathological states.
 XX Sequence 1603 BP; 466 A; 422 C; 405 G; 310 T; 0 other;

Query Match 99.8%; Score 1030.4; DB 21; Length 1603;
 Best Local Similarity 99.9%; Pred. No. 2.4e-309;
 Matches 1031; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 atgaaacctcagcagaacaaatgacattctatctcttggacattctacgggctg 60
 Db 92 atgaaacctcagcagaacaaatgacattctatctcttggacattctacgggctg 151
 QY 61 gctgtctgtgtctcctcagaagagtgccgtgagcagcgagatgacacctcccaaa 120
 Db 152 gctgtctgtgtctcctcagaagagtgccgtgagcagcgagatgacacctcccaaa 211
 QY 121 gctatgacaagtgacggtccggcaggggagagcgccacacctgaagtgcattatgac 180
 Db 212 gctatgacaagtgacggtccggcaggggagagcgccacacctgaagtgcattatgac 271
 QY 181 aaccgggtacccgggtgctgctgttaaacggagagacatctctatgctcgggaatgac 240
 Db 272 aaccgggtacccgggtgctgctgttaaacggagagacatctctatgctcgggaatgac 331
 QY 241 aagtgtgcttgatcctcgtgtgtccttctgaagaacacccaacgacgtacagacac 300
 Db 332 aagtgtgcttgatcctcgtgtgtccttctgaagaacacccaacgacgtacagacac 391
 QY 301 gagatccagaacgtgtgatatgacagaggcccttacacacctgctggtcagagaagac 360
 Db 392 gagatccagaacgtgtgatatgacagaggcccttacacacctgctggtcagagaagac 451
 QY 361 aaccacccaaagaccttaggggtcaccctattgtgcaagratatcccaaatgttagag 420
 Db 452 aaccacccaaagaccttaggggtcaccctattgtgcaagratatcccaaatgttagag 511
 QY 421 attcttcagatattcccatatgaagggacaattatgacctacgtcattgacact 480


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Db 512 attcttcagatattccatctaataaggaacataatagcttcacgtcagtagcaact 571
QY 481 gttgaaccagagcttaagcttacttgagacacatctctcccaagcgggttgcttgg 540
Db 572 gttgaaccagagcttaagcttacttgagacacatctctcccaagcgggttgcttgg 631
QY 541 agtgaagaagcaatacttggaaattcagagcatcacccgggagcaggtacaggaacag 600
Db 632 agtgaagaagcaatacttggaaattcagagcatcacccgggagcaggtacaggaacag 691
QY 601 tgcagtgcttcacatagcgtggtggccggtgtgtacggagtaaggtcacgcgtgac 660
Db 692 tgcagtgcttcacatagcgtggtggccggtgtgtacggagtaaggtcacgcgtgac 751
QY 661 taccaccatattcagaagcaagggtacaggtgtcccgctgggacaaaaggagaca 720
Db 752 taccaccatattcagaagcaagggtacaggtgtcccgctgggacaaaaggagaca 811
QY 721 ctgcagtgtagaagcctcagcagtcctccctcagcaaatccagtggtacaggaatgacaa 780
Db 812 ctgcagtgtagaagcctcagcagtcctccctcagcaaatccagtggtacaggaatgacaa 871
QY 781 agactgattgaagaaagaaaggggtgaagttgaaacagacacttctctcctaaactc 840
Db 872 agactgattgaagaaagaaaggggtgaagttgaaacagacacttctctcctaaactc 931
QY 841 atctcttcaatgtctctgaacatgaatcaggaacacacttggtggccctcccaacag 900
Db 932 atctcttcaatgtctctgaacatgaatcaggaacacacttggtggccctcccaacag 991
QY 901 ctgggacacacacacacacacacacacacacacacacacacacacacacacacacac 960
Db 992 ctgggacacacacacacacacacacacacacacacacacacacacacacacacacac 1051
QY 961 aacggacacacacacacacacacacacacacacacacacacacacacacacacac 1020
Db 1052 aacggacacacacacacacacacacacacacacacacacacacacacacacacac 1111
QY 1021 ctctccaattt 1032
Db 1112 ctctccaattt 1123

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RESULT 8
 ID AAA88791 standard: cDNA; 2012 BP.
 AC AAA88791;
 XX
 DT 19-FEB-2001 (first entry)
 DE Human SECX cDNA Clone 11753149.0.37.
 XX
 KW SECX; human; diagnosis; gene therapy; cell adhesion; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key
 FT CDS Location/Qualifiers
 FT sig_peptide /tag= a
 FT /tag= 501..599
 FT mat_peptide /tag= b
 FT 600..1532
 FT /*tag= c
 PN W0200061754-A2.
 XX
 PD 19-OCT-2000.
 XX
 PF 07-APR-2000; 2000MO-US09392.
 XX
 PR 09-APR-1999; 99US-0128514.
 PR 03-MAR-2000; 2000US-0128514.
 PR

```

XX PA (CURA-) CUBAGEN CORP.  

XX PI Fernandez E, Vernet C, Shinkets R;  

XX DR WPI; 2000-679487/66.  

XX DR P-PSDB: AAB19722.  

PT SECX polypeptides and the nucleic acids that encode them, useful for  

PT diagnosing, preventing and treating e.g. cancers, inflammation,  

PT arthritis and immunological disorders -  

XX  

PS Claim 14; Fig 3; 143pp; English.  

XX  

CC The present sequence is that of SECX Clone 11753149.0.37, which  

CC resembles rat neural cell adhesion molecule neurotrimin and human  

CC oploid binding protein/cell adhesion molecule OBOAM. The clone  

CC was initially identified in human foetal brain tissue. The  

CC invention provides novel SECX polynucleotides (see AAA88789-804) and  

CC the secreted or membrane-associated proteins encoded by them  

CC (see AAB19720-34). SECX polynucleotides, polypeptides and antibodies  

CC can be used in the detection, diagnosis and treatment (including  

CC gene therapy) of a broad range of pathological states.  

XX  

SQ Sequence 2012 BP; 567 A; 503 C; 512 G; 430 T; 0 other;  


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Query Match 99.8%; Score 1030.4; DB 21; Length 2012;
 Best Local Similarity 99.9%; Pred. No. 2.8e-309;
 Matches 1031; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 atgaaaacacatcagcacaacaaatgacaaattctctcttggcaactcttcagggtgct 60
Db 501 atgaaaacacatcagcacaacaaatgacaaattctctcttggcaactcttcagggtgct 560
QY 61 gctgtctgttctcttccaaggagtgccgtgtgcagcggaatgacacattcccaaa 120
Db 561 gctgtctgttctcttccaaggagtgccgtgtgcagcggaatgacacattcccaaa 620
QY 121 gctatgacaacgttgaaggtcgcaggggagagcgccacaccttcaggtgacattgac 180
Db 621 gctatgacaacgttgaaggtcgcaggggagagcgccacaccttcaggtgacattgac 680
QY 181 aaccggttcaaccgggtgtgcttgcttaaacgcgcacacatctctatgttggatgac 240
Db 681 aaccggttcaaccgggtgtgcttgcttaaacgcgcacacatctctatgttggatgac 740
QY 241 aagtgtgtccttgatctcctgcgtgtgtcttcttgagcaaccccaacgcagtacagc 300
Db 741 aagtgtgtccttgatctcctgcgtgtgtcttcttgagcaaccccaacgcagtacagc 800
QY 301 gagatcagaagcttgatgtatgacagagggcccttaacacacgtgtcgttgaagacagac 360
Db 801 gagatcagaagcttgatgtatgacagagggcccttaacacacacgtgtcgttgaagacagac 860
QY 361 aaccacccaaagaaccttaggggtccacctcatitgtgaagtatctcccaaatgttagag 420
Db 861 aaccacccaaagaaccttaggggtccacctcatitgtgaagtatctcccaaatgttagag 920
QY 421 attcttcagaatctccatctaatagaaggaacataatagctcactgtcaggaact 480
Db 921 attcttcagaatctccatctaatagaaggaacataatagctcactgtcaggaact 980
QY 481 gtagaccagagcctcaggttacttgaggagacacatctcccaagcgggttgcttgg 540
Db 981 gtagaccagagcctcaggttacttgaggagacacatctcccaagcgggttgcttgg 1040
QY 541 agtgaagaagcaatacttggaaattcagagcatcacccgggagcaggtacaggaacag 600
Db 1041 agtgaagaagcaatacttggaaattcagagcatcacccgggagcaggtacaggaacag 1100
QY 601 tgcagtgcttcacatagcgtggtggccggtgtgtacggagtaaggtcacgcgtgac 660

```

Db 1101 tgcagtcctcccaatgacgtgcccgccttgtaagagtaaggtacacggtaac 1160
 QY 661 tatccacatacatcttcgaagcaagggtacaggtgtcccgctgggacaaggggaca 720
 Db 1161 tatccacatacatcttcgaagcaagggtacaggtgtcccgctgggacaaggggaca 1220
 QY 721 ctgcaggtgtgaagcctccacgaatcccccacagaattccagtgtgtacaaaggtacaa 780
 Db 1221 ctgcaggtgtgaagcctccacgaatcccccacagaattccagtgtgtacaaaggtacaa 1280
 QY 781 agactgtgtgaagaaaggggtgaaggtgaagaaagcacttctctcctcaaacctc 840
 Db 1281 agactgtgtgaagaaaggggtgaaggtgaagaaagcacttctctcctcaaacctc 1340
 QY 841 atctcttcaatgtctctgaacatgactatgtgaactacactgtgctgtcctcaaacg 900
 Db 1341 atctcttcaatgtctctgaacatgactatgtgaactacactgtgctgtcctcaaacg 1400
 QY 901 ctgggac 960
 Db 1401 ctgggac 1460
 QY 961 aacggcagctcag 1020
 Db 1461 aacggcagctcag 1520
 QY 1021 ctctcacaattt 1032
 Db 1521 ctctcacaattt 1532

RESULT 9
 AA159655
 ID AA159655 standard; cDNA, 1690 BP.
 AC AA159655;
 DT 22-OCT-2001 (first entry)
 XX
 DE Human polynucleotide SEQ ID NO 3644.
 XX
 KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokine; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200153312-A1.
 XX
 PD 26-JUL-2001.
 XX
 PP 26-DEC-2000; 2000WO-US34263.
 XX
 PR 21-JAN-2000; 2000US-0488725.
 PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0538042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Dimaane RT;
 XX
 DR WPI; 2001-442253/47.
 DR P-PSDB; AAM40499.

XX
 PT Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 XX
 PS Claim 1; SEQ ID NO 3644; 10078bp; English.
 XX
 CC The invention relates to human nucleic acids (AA157798-AA161369) and
 CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
 CC utilisation of the activities such as: Immune system suppression,
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, cancer diagnosis and therapy, drug screening,
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.
 CC
 SQ Sequence 1690 BP; 482 A; 416 C; 425 G; 367 T; 0 other;

Query Match 96.7%; Score 998; DB 22; Length 1690;
 Best Local Similarity 99.7%; Pred. No. 2.9e-299;
 Matches 1031; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

QY 1 atgaacaacatccagcaaaatgacaaatctatctcttggcaatcttcacgggctg 60
 Db 474 atgaacaacatccagcaaaatgacaaatctatctcttggcaatcttcacgggctg 533
 QY 61 gctgctgtgtctcttccaagaggtgccgtgcgaagcgagagacaccttcccaaa 120
 Db 534 gctgctgtgtctcttccaagaggtgccgtgcgaagcgagagacaccttcccaaa 593
 QY 121 gctatgacaacgtgacggtccgagagagagagagagagagagagagagagagagag 180
 Db 594 gctatgacaacgtgacggtccgagagagagagagagagagagagagagagagagag 653
 QY 181 aaccgggtaccgggtgctgctgctaaacggcagccatctctatgtctggaaatgac 240
 Db 654 aaccgggtaccgggtgctgctgctaaacggcagccatctctatgtctggaaatgac 713
 QY 241 aagtgtgctgtgattctcgtgtgtctctcttgagcaaacccaacgacgtacagcattc 300
 Db 714 aagtgtgctgtgattctcgtgtgtctctcttgagcaaacccaacgacgtacagcattc 773
 QY 301 gagatccagaacgtgattgtatgacagagagcccttaacacgtgtcgtgacagagac 360
 Db 774 gagatccagaacgtgattgtatgacagagagagcccttaacacgtgtcgtgacagagac 833
 QY 361 aaccaccaaaagacacctagaggtccacacctatgtgtgaagtaatccccaatgttag 420
 Db 834 aaccaccaaaagacacctagaggtccacacctatgtgtgaagtaatccccaatgttag 883
 QY 421 attcttcagatattccatttaagaagaggaacaatatagcctacactgtatgaacact 480
 Db 884 attcttcagatattccatttaagaagaggaacaatatagcctacactgtatgaacact 953
 QY 481 ggtagacagaagcctagcttacttgtagagacacattctcccaaggggtgtgtgtgtg 540
 Db 954 ggtagacagaagcctagcttacttgtagagacacattctcccaaggggtgtgtgtgtg 1013
 QY 541 agtgaagaagaacttgaatccaagagatcaccgggagacatccagggagtaacagag 600
 Db 1014 agtgaagaagaacttgaatccaagagatcaccgggagacatccagggagtaacagag 1073
 QY 601 tgcagtgctccaatgacgt-ggcgcgcgcgt-gttacgagagtaaggtacacgtga 658
 Db 1074 tgcagtgctccaatgacgtggtgcgcgcgcgtggttacgagagtaaggtacacgtga 1133

PT	Novel nucleic acids and polypeptides, useful for treating disorders
PT	such as central nervous system injuries -
PS	Claim 1: SEQ ID NO 72; 10078bp; English.
XX	
XX	
CC	The invention relates to human nucleic acids (AA157798-AA161369) and
CC	the encoded polypeptides (AAAM8642-AAAM2213) with nucleotide
CC	immunosuppressant and cyostatic activity. The polynucleotides are useful
CC	in gene therapy. A composition containing a polypeptide or polynucleotide
CC	of the invention may be used to treat diseases of the peripheral nervous
CC	system, such as peripheral nervous injuries, peripheral neuropathy and
CC	localised neuropathies and central nervous system diseases, such as
CC	Alzheimer's, Parkinson's disease, Huntington's disease, amphotrophic
CC	lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC	utilisation of the activities such as: Immune system suppression,
CC	Activin/Inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC	and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC	assays for receptor activity, arthritis and inflammation, leukaemias and
CC	C.N.S. disorders.
CC	Note: The sequence data for this patent did not form part of the printed
CC	specification.
XX	
XX	
QQ	Sequence 1678 BP; 420 A; 468 C; 451 G; 339 T; 0 other;
Query Match	92.2%; Score 952; DB 22; Length 1678;
Best Local Similarity	100.0%; Pred. No. 5,7e-285;
Matches 952; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
QY	81 aggaagtcgcccgtgcagcgcggagatccacacttcccaagcctatgagcaacgctgacgt 140
DB	222 aggaagtcgcccgtgcagcgcggagatccacacttcccaagcctatgagcaacgctgacgt 281
QY	141 ccggagaggggagagcgccacccctaaagtgcacattatgacaacgcgggtccaccggctgac 200
DB	282 ccggagaggggagagcgccacccctaaagtgcacattatgacaacgcgggtccaccggctgac 341
QY	201 ctgctgtaaacgcgaagcaccatcctctatgctcgtgggaatgacaagtggtgctcgatctcg 260
DB	342 ctgctgtaaacgcgaagcaccatcctctatgctcgtgggaatgacaagtggtgctcgatctcg 401
QY	261 cgtgttcctcttgagcaacaccacaacgcagatgaagatcgagatcccaagcctgagatgt 320
DB	402 cgtgttcctcttgagcaacaccacaacgcagatgaagatcgagatcccaagcctgagatgt 461
QY	321 gtaatgaagaggcccttacactgctcgtgtagacagacaacaccacaagacctctag 380
DB	462 gtaatgaagaggcccttacactgctcgtgtagacagacaacaccacaagacctctag 521
QY	381 gttccaccctaattgctcaagatctctcccaaatgttagagatttcttaagatattctcat 440
DB	522 gttccaccctaattgctcaagatctctcccaaatgttagagatttcttaagatattctcat 581
QY	441 taatgaagggaacaatatattagctcctacactgatatgacacatcgtgtagaccagagcttaag 500
DB	582 taatgaagggaacaatatattagctcctacactgatatgacacatcgtgtagaccagagcttaag 641
QY	501 taattggagacaatatctctcccaaaagcggtgtgcttctgtgagtgtgaagcgaatacttgg 560
DB	642 taattggagacaatatctctcccaaaagcggtgtgcttctgtgagtgtgaagcgaatacttgg 701
QY	561 aattcaaggacatacccgaggagcagttagggagactcaggtgcagtgtcctccaattagcgt 620
DB	702 aattcaaggacatacccgaggagcagttagggagactcaggtgcagtgtcctccaattagcgt 761
QY	621 ggcgcgcgcctgtgtacaggaagttaaaagttaacgctgttaactatccacatacatattttag 680
DB	762 ggcgcgcgcctgtgtacaggaagttaaaagttaacgctgttaactatccacatacatattttag 821
QY	681 agccaagaagttaagaggttcctccgtgtggacaaaaaggggacaatgcacgtgtgtgaagcctcagc 740
DB	822 agccaagaagttaagaggttcctccgtgtggacaaaaaggggacaatgcacgtgtgtgaagcctcagc 881

QY 741 agtccctcagcagaattccagtggtacaaagatgacaaagactgtatgaagaa 800
 Db 882 agtccctcagcagaattccagtggtacaaagatgacaaagactgtatgaagaa 941
 QY 801 aggggtgaaagtgaaacagacattctctcaaacatctatcttcaatgctctga 860
 Db 942 aggggtgaaagtgaaacagacattctctcaaacatctatcttcaatgctctga 1001
 QY 861 acatgactatgggaactacacttcgtggtccccaagaagctgggccaacacatgcca 920
 Db 1002 acatgactatgggaactacacttcgtggtccccaagaagctgggccaacacatgcca 1061
 QY 921 catcatgctatttggtccagggcggtcagagaggtgagaaagcgacgttcgagagggc 980
 Db 1062 catcatgctatttggtccagggcggtcagagaggtgagaaagcgacgttcgagagggc 1121
 QY 981 aggtcgtctggtcgtcgtcctctctgtcttcgtcacccttcctcaattt 1032
 Db 1122 aggtcgtctggtcgtcgtcctctctgtcttcgtcacccttcctcaattt 1173

RESULT 11

AAZ47894

ID AAZ47894 standard; cDNA; 939 BP.

XX AC AAZ47894;

DT 10-MAR-2000 (first entry)

DE Human protein encoding cDNA SEQ ID NO:5.

XX KW Human: haematopoietic cell regulation; tissue generation; reparation;
 KW activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
 KW receptor; ligand; autoimmune; infection-related immunodeficiency;
 KW inflammatory disorder; neurological disease; ss.

OS Homo sapiens.

XX FH Key Location/Qualifiers
 FT CDS 1..939
 FT /tag= a
 FT /note= "no stop codon given"

PN W0958668-A1.

PD 18-NOV-1999.

PF 13-MAY-1999; 99WO-JP02485.

PR 14-MAY-1998; 98JP-0131815.

PA (ONKOY) ONO PHARM CO LTD.

PI Fukushima D, Shibayama S, Tada H;

DR WPI: 2000-062298/05.

DR P-PSDB: AAY57602.

XX PT New polypeptides of human origin having cell regulatory, tissue
 PT generation, coagulant and other activities
 PS Claim 4; Page 48; 84pp; Japanese.

CC The present sequence encodes a specifically claimed novel human protein.
 CC The novel human protein can be used in therapeutic drugs for the
 CC prevention and treatment of a broad range of disorders including
 CC autoimmune and infection-related immunodeficiency, inflammatory
 CC disorders, and neurological diseases. The novel protein is expected of
 CC having haematopoietic cell regulatory activity, tissue generation/
 CC reparation activity, activin/inhibin activity, taxis/chemotaxis activity,
 CC blood coagulation and thrombus activity, and receptor/ligand activity.
 XX Sequence 939 BP; 245 A; 255 C; 249 G; 190 T; 0 other;

Query Match 91.0%; Score 939; DB 21; Length 939;
 Best Local Similarity 100.0%; Pred. NO. 4.5e-281;
 Matches 939; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 94 cgcacgagagatgccaactccccaagctatggacaacgtgacggtccgcgaaggagag 153
 Db 1 cgcacgagagatgccaactccccaagctatggacaacgtgacggtccgcgaaggagag 60
 QY 154 agcgccaactcaggtgcaactatgaacaacgggtccacccgggtggtcgttaaacgc 213
 Db 61 agcgccaactcaggtgcaactatgaacaacgggtccacccgggtggtcgttaaacgc 120
 QY 214 agcacaacccctatgctgggaatgaacaaggtggtcgttgaatccctggttctctg 273
 Db 121 agcacaacccctatgctgggaatgaacaaggtggtcgttgaatccctggttctctg 180
 QY 274 agcacaaccccaacgcagatcagcatcgaagatccagaacgtgagtgatgacagagcc 333
 Db 181 agcacaaccccaacgcagatcagcatcgaagatccagaacgtgagtgatgacagagcc 240
 QY 334 ccttaacacctgctcgtgtgcaagacaacaccccaagacctgtggtccactatt 393
 Db 241 ccttaacacctgctcgtgtgcaagacaacaccccaagacctgtggtccactatt 300
 QY 394 gtgcaagatctcccaaatgttagagattcttcagatatctccattatgaagggagac 453
 Db 301 gtgcaagatctcccaaatgttagagattcttcagatatctccattatgaagggagac 360
 QY 454 aatatagcctcaccctgcatagacaactgttagaccagaagctcagttactgtgagacac 513
 Db 361 aatatagcctcaccctgcatagacaactgttagaccagaagctcagttactgtgagacac 420
 QY 514 atctctcccaaacggttgccttctgtgagtgaaagcaactgtgaaatccagggcacc 573
 Db 421 atctctcccaaacggttgccttctgtgagtgaaagcaactgtgaaatccagggcacc 480
 QY 574 aaccggagcagtcacagtgacagtgacgtgctcccaatgactgtgcccgcgcgtg 633
 Db 481 aaccggagcagtcacagtgacagtgacgtgctcccaatgactgtgcccgcgcgtg 540
 QY 634 gtacgagagtaaaagtcacgcgtgacatccacacatattcagaagccaaggtgaca 693
 Db 541 gtacgagagtaaaagtcacgcgtgacatccacacatattcagaagccaaggtgaca 600
 QY 694 ggtgtcccgctgggacaacaaagggaacactgcagtgtagaagctcagcagtcctccacga 753
 Db 601 ggtgtcccgctgggacaacaaagggaacactgcagtgtagaagctcagcagtcctccacga 660
 QY 754 gaattccagtggtacagaatgacaagaagactgtatgaagaaagaagggtgaaagt 813
 Db 661 gaattccagtggtacagaatgacaagaagactgtatgaagaaagaagggtgaaagt 720
 QY 814 gaaacagacattctctcctcaaacatcatctcttcaatgtctcgaacagactatggg 873
 Db 721 gaaacagacattctctcctcaaacatcatctcttcaatgtctcgaacagactatggg 780
 QY 874 aactaaccttgctgtgctcccaacaaagctgggccaacaaatgccaatcatgctatt 933
 Db 781 aactaaccttgctgtgctcccaacaaagctgggccaacaaatgccaatcatgctatt 840
 QY 934 ggtccagcgccgtcagcgaggtgagcaacgagcgtgagagggcggtggtctg 993
 Db 841 ggtccagcgccgtcagcgaggtgagcaacgagcgtgagagggcggtggtctg 900
 QY 994 ctgctgctctctgtgcttgcacactgtctcctcaattt 1032
 Db 901 ctgctgctctctgtgcttgcacactgtctcctcaattt 939

RESULT 12

AAZ44536

ID AAA44536 standard: cDNA; 832 BP.
 AC AAA44536;
 XX
 DT 21-AUG-2000 (first entry)
 DE
 XX
 Human secreted expressed sequence tag SEQ ID NO:1111.
 Human; mouse; chicken; rat; secreted expressed sequence tag; SEST;
 expressed sequence tag; EST; probe: chemokine; proliferative;
 immunomodulatory; haematopoietic; chemokine; analgesic; haemostatic;
 thrombolytic; antiinflammatory; cytoskeletal; antibacterial; antifungal;
 antiviral; antidiabetic; antistaphylococcal; antiparkinsonian;
 antitumor; osteoprotective; neuroprotective; neurotrophic; antiparasitic;
 cerebroprotective; anticonvulsant; antidepressant; gene therapy;
 vaccine; autoimmune disorder; multiple sclerosis; allergic condition;
 insulin dependent diabetes; asthma; myeloid cell deficiency; ulcer;
 lymphoid cell deficiency; burn; osteoporosis; osteoarthritis;
 central nervous system disorder; Alzheimer's disease; stroke;
 Parkinson's disease; Huntington's disease; coagulation disorder;
 haemophilia; thrombosis; inflammatory disorder; Crohn's disease;
 tumour; infection; depression; psoriasis; ss.
 XX
 OS Homo sapiens.
 PN WO200021991-A1.
 PD 20-APR-2000.
 XX
 PF 15-OCT-1999; 99MO-US24206.
 XX
 PR 15-OCT-1998; 98US-0104436.
 XX
 PA (GENY) GENETICS INST INC.
 XX
 PI Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;
 PI Merberg D, Treacy M, Bowman MR.
 DR WPI; 2000-317938/27.
 XX
 PT Isolated polynucleotides, and encoded proteins, comprising secreted
 PT expressed sequence tags (SESTs), useful for treating various disorders
 PT such as autoimmune, infectious, and central nervous system disorders -
 XX
 PS Claim 1; Page 487-488; 803pp; English.
 XX
 CC AAA43426 to AAA45925 represent specifically claimed secreted expressed
 CC sequence tags (SESTs), isolated from human, mouse, chicken and rat
 CC tissue sources. The SESTs can have a range of activities depending on
 CC the tissues they were isolated from. The activities include:
 CC chemokine; proliferative; immunomodulatory; haematopoietic;
 CC chemokine; analgesic; haemostatic; thrombolytic; antiinflammatory;
 CC cytoskeletal; antibacterial; antifungal; antiviral; antidiabetic;
 CC antistaphylococcal; antitumor; osteoprotective; neuroprotective;
 CC neurotrophic; antiparkinsonian; antiparasitic; cerebroprotective;
 CC anticonvulsant; and antidepressant. The SESTs can be used for gene
 CC therapy and in vaccines. The SESTs are useful as probes for the
 CC identification and isolation of full-length cDNAs and genomic DNA
 CC molecules which correspond to the SESTs. Proteins encoded by the SESTs
 CC are useful in assays for determining biological activity and raising
 CC antibodies. They may be useful for treatment of autoimmune disorders
 CC (multiple sclerosis, insulin dependent diabetes), allergic conditions
 CC (asthma), myeloid or lymphoid cell deficiencies, wounds, burns, ulcers,
 CC osteoporosis, osteoarthritis, central nervous system disorders
 CC (Alzheimer's, Parkinson's, Huntington's disease, stroke), coagulation
 CC disorders (haemophilia, thrombosis), inflammatory disorders (Crohn's
 CC disease), tumours, bacterial, fungal or viral infections, depression and
 CC psoriasis. AAA45926 to AAA45931 represent linker variants which are given
 CC in the exemplification of the present invention.
 XX
 SQ Sequence 832 BP; 246 A; 217 C; 206 G; 163 T; 0 other;

Query Match 65.0%; Score 670.8; DP 21; Length 832;
 Best Local Similarity 99.7%; Pred. No. 8.7e-198;
 Matches 672; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1 atgaanaacatccagcaaaatgtacaaattctatctcttgggaatcttcaggagctg 60
 Db 155 atgaanaacatccagcaaaatgtacaaattctatctcttgggaatcttcaggagctg 214
 QY 61 gctctctgttctcttccaagagtgcccggtgacagcgagatgccaattcccaaa 120
 Db 215 gctctctgttctcttccaagagtgcccggtgacagcgagatgccaattcccaaa 274
 QY 121 gctatggcaacggtgacggttccggaaggagagcgccaccccttcggatcttgc 180
 Db 275 gctatggcaacggtgacggttccggaaggagagcgccaccccttcggatcttgc 334
 QY 181 aaccggtgcaaccggtggtgctgtgacacccgagacacacacacacacacacac 240
 Db 335 aaccggtgcaaccggtggtgctgtgacacacacacacacacacacacacacacac 394
 QY 241 aagtggtgctgtgac 300
 Db 395 aagtggtgctgtgac 454
 QY 301 agatccagacagacgtgagtgatgacagagcccttaccacacacacacacacacac 360
 Db 455 agatccagacagacgtgagtgatgacagagcccttaccacacacacacacacacac 514
 QY 361 aaccaccccaagac 420
 Db 515 aaccaccccaagac 574
 QY 421 attcttccagatattcccaatgaagaggaacacacacacacacacacacacacacac 480
 Db 575 attcttccagatattcccaatgaagaggaacacacacacacacacacacacacacac 634
 QY 481 ggtgacacagac 540
 Db 635 ggtgacacagac 694
 QY 541 agtgaagaac 600
 Db 695 agtgaagaac 754
 QY 601 tgcagtcctccac 660
 Db 755 tgcagtcctccac 814
 QY 661 tatccac 720
 Db 815 tatccac 874
 QY 815 tatccac 874
 Db 815 tatccac 874
 RESULT 13
 ID AA051015
 XX AA051015 standard: cDNA; 3069 BP.
 AC AA051015;
 XX
 DT 17-MAY-1994 (first entry)
 DE
 XX
 XX Rat opioid receptor gene.
 DE
 XX
 XX Transgenic; narcotics; analgesics; expression; antisense therapy;
 KW analogue; derivative; degradation; chronic pain; cancer; morphine;
 KW detection; diagnosis; addictions; ds.
 XX
 OS Rattus rattus.
 XX
 PN MO9321309-A.
 PD 28-OCT-1993.
 XX

PF 29-MAR-1993; 93WO-US02913.
 XX
 XX 10-APR-1992; 92US-0866677.
 XX
 PA (LEEN/) LEE N M.
 PA (LIPP/) LIPPMAN D.
 PA (LOHH/) LOH H H.
 XX
 PI Lee NM, Lippman D, Loh HH;
 XX
 DR WPI: 1993-351719/44.
 XX
 PT Transgenic animals and novel oligo-nucleotide constructs - useful
 PT in diagnosis and treatment of addiction to narcotic analgesics
 XX
 PS Claim 5; Page 25-30; 49pp; English.

CC The sequence is that of the rat opioid receptor gene. The gene is
 CC able to hybridise with endogenous mRNA for an opioid binding protein
 CC to suppress expression of an opioid receptor gene; transgenic
 CC animals contg. the gene in reverse are useful in diagnosis and
 CC treatment for addiction to narcotic analgesics. By admin. of
 CC antisense fragments of the gene, chronic pain, such as in terminal
 CC cancer patients can be treated without development of tolerance to
 CC analgesics such as morphine. The gene may also be used
 CC diagnostically to detect addicts.
 CC See also AA051016-7.

XX Sequence 3069 BP; 803 A; 787 C; 661 G; 818 T; 0 other;

Query Match 51.9%; Score 536; DB 14; Length 3069;
 Best Local Similarity 71.2%; Pred. No. 1.4e-155;

Matches 723; Conservative 0; Mismatches 290; Indels 3; Gaps 1;

QY 20 aaatgcacatctatctctcttggcaatcttcaagggctgctgctctgtctctcc 79
 Db 636 agatgtacatcccgctactgtactgtctcttctgcacacacgctcttcttacc 695
 QY 80 aaggaatgccgtgcagcagcgagatgcacacttcccaagaatgtgacaacgtacg 139
 Db 696 caggagtgccgtgctgcagcagcgagatgcacacttcccaagaatgtgacaacgtacg 755
 QY 140 tccgcaaggagagagcgccacacttgaatgtgacatgtgacaacgggtccacggggtg 199
 Db 756 tccgcaaggagagagcgccacacttgaatgtgacatgtgacaacgggtccacggggtg 815
 QY 200 cctggctaaccgcagacacatctctatgtctggaatgagatgcagatccagacgtgagtg 259
 Db 816 cctggctaaccgcagacacatctctatgtctggaatgagatgcagatccagacgtgagtg 875
 QY 260 ggtgtgtctctctgagacaacacccaaagcagatcacatccagatccagacgtgagtg 319
 Db 876 ggtgtgtctctctgagacaacacccaaagcagatcacatccagatccagacgtgagtg 935
 QY 320 tgtatgaagagggcccttacaactgtctgagcagagacacccaaagacactta 379
 Db 936 tttatgaagagggctcgtacactgtctgtgcagacagacacacccaaagacacttcc 995
 QY 380 ggtccacacttattgtcgaatctcccaaatgttagagatttctatcatctca 439
 Db 996 ggtccacacttattgtcgaatctcccaaatgttagagatttctatcatctca 1055
 QY 440 ttaatgaagaggaacaatatagctcactgtacatgataagaatgtgtaaccagagcctaagg 499
 Db 1056 tgaatgagataagaagatgtgaacctgttatgtctgcgaattgtgcagacagagaacaag 1115
 QY 500 ttacttggagacacatctctccca--aagcgtgtgcttggatgtgagagcgaatact 556
 Db 1116 tgacatggcagacacactgtcagtcagaagaagccagggcttggatgtgagatgaatacc 1175
 QY 557 tggaaatcagagcatccacccggagcagtcagtgaggaactcaggttcaggtcctccatg 616
 ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

Db 1176 tggaaatcagacacacacacgacacacatctgagagatgagtcagcgccttgaatg 1235
 QY 617 acgtggccgcgcgcgtgagcagagagtaaggtaacgttgacatccacacacat 676
 Db 1236 atgtcgtcgtacactgtatgttcggaagvuaaaatcacgtgtaaacatctccatatact 1295
 QY 677 cagaagccaagggtacaggtgtccctgtggacaagaaggagacatgcagtgatgaaacct 736
 Db 1296 caaagcgaagaacacactgscgtttccagtaagccaagaaggacactcctgagctggaagac 1355
 QY 737 cagcagtcctccctcagaagaatccagttgtgtacagaagtacaaaagactgattgaagaa 796
 Db 1356 ctgctgtcccccattgctgaattccagtggttccaagaagataccaggttagccacgtggcc 1415
 QY 797 agaaggggtgaaagtgtgaaacagacacttctctccaacatctcttctaagtct 856
 Db 1416 tgaatgtgcgvgaaatgtgaaacaaagccgacatctccacttgccttctaagtct 1475
 QY 857 ctgacaatgactatgtggaactacacttgcgtgctcccaagaagtggccacacatg 916
 Db 1476 cagagaaggatattgtggaactatactcctgtgtggccacaacaagcttggagaaccaatg 1535
 QY 917 ccagcatcatgtattgttccagcgccgtcagcaggtgagcaagcgacgttcagaga 976
 Db 1536 ccagcatcacctgtatgtgcttgagcagcatcatgtatgtgtaactcgcgtcctcagag 1595
 QY 977 gggcaggtcgtctgctgtcgtctcttctgtcttgactcgtctctaattt 1032
 Db 1596 cactgtctgtctcgtcctcaggaaccttcttgccacattcttataagttt 1651

RESULT 14

AA051017
 ID AA051017 standard; CDNA; 2179 BP.

XX AC AA051017;

XX DT 17-MAY-1994 (first entry)

XX DE Rat opioid receptor gene.

XX KW 'Transgenic; narcotics; analgesics; expression; antisense therapy;
 KW analogue; derivative; degradation; chronic pain; cancer; morphine;
 KW detection; diagnosis; addicts; ds.

XX OS Rattus rattus.

XX PN W09321309-A.

XX PD 28-OCT-1993.

XX PF 29-MAR-1993; 93WO-US02913.

XX PR 10-APR-1992; 92US-0866677.

XX PA (LEEN/) LEE N M.
 XX PA (LIPP/) LIPPMAN D.
 XX PA (LOHH/) LOH H H.

XX PI Lee NM, Lippman D, Loh HH;

XX DR WPI: 1993-351719/44.

XX PT Transgenic animals and novel oligo-nucleotide constructs - useful
 XX in diagnosis and treatment of addiction to narcotic analgesics

XX PS Claim 5; Page 34-7; 49pp; English.

CC The sequence is that of the rat opioid receptor gene. The gene is
 CC able to hybridise with endogenous mRNA for an opioid binding protein
 CC to suppress expression of an opioid receptor gene. Transgenic
 CC animals contg. the gene in reverse are useful in diagnosis and
 CC treatment for addiction to narcotic analgesics. By admin. of

Db 727 agtatacatcttggtaacacgctaccacagtlacagtlacatgatacgaatgttgatgt 786
 QY 321 gtatagcagaggcccttacacctgtctggtgcagagagacaaccccaagaaccttag 380
 Db 787 ttatagcagaggcccttacacctgtctggtgcagagagacaaccccaagaaccttag 846
 QY 381 ggtcacccatgtgcagatctcccaaatgtgagatcttccagatctccat 440
 Db 847 ggtcacccatgtgcagatcttcccaagaatgtgagatcttccagatctccat 906
 QY 441 taatgaagggaacaalatagctcactgacatgacatctgttagaacagacctag 500
 Db 907 gaatgagataagcagtgtgacactgttattgtctgcaattgtgcagaccagacaacagt 966
 QY 501 tacttgagacacacatctccca---aagcgtgtgcttctgtgagtaagaagcaactt 557
 Db 967 gacatggtgcagacacctgtcagtaagcaaggccaaggtcttgtgagtaagaatlaact 1026
 QY 558 ggaatlcagggcatalcaaccggagagcagtlcagggagactagtcagtgctcccaatga 617
 Db 1027 ggaatlcagggcatalcaaccggagagcagtlcagggagactagtcagtgctcccaatga 1086
 QY 618 cgtggtccggtccgtgtgtaagagagtaaaaggtacacgtgaactataccacatacttc 677
 Db 1087 tgcgtcgtcacctgtgttcggaagtaaaatcactgttaactatctccatctatcttc 1146
 QY 678 agagagcaaggtgtacaggtgtcccggtggagacaagaaggacactgagtgtaagcctc 737
 Db 1147 aagaagcgaagacactgtgttcagtaaggccaagaggtcctgagctgtgaagcctc 1206
 QY 738 agcagtcacctcagcagaatlcagagtlcagacaagatgacaagaagctgttgaaggaa 797
 Db 1207 tgcgtcccatgtgtgaattccagtggttcaagagataccaggttagccacgtgcct 1266
 QY 798 gaaaggggtgaaagtgtgaaacaagacaccttctctcaaaactcatcttcaatgtctc 857
 Db 1267 ggtatggcgtgaaatltgaaacaagccgcataltccacttgaacttcttcaatgtctc 1326
 QY 858 tgaacatgactatggaactacactgtgcgtgtgcctccacaagaagctggccaacaatgc 917
 Db 1327 agagagagattatgtgaactatacctgtgtgcccacaacaagcttgggaacaacaatgc 1386
 QY 918 cagatcatgtctattgttcagggcgctcagcagaggtgagcaacygacgttcgaggag 977
 Db 1387 cagatcatcactgtatgtggtcgtgagcaatcatgtatgtgttaactgcctctagagc 1446
 QY 978 ggcaggtgcgtgcgtgtgccttctgtcttgccttgccttgccttgccttgccttgcct 1032
 Db 1447 actggtgtctcgtcctcagggaaacttcttgcctcacttcttcaatcaagtt 1501

Search completed: July 11, 2002, 23:01:01
 Job time: 8929 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 19:07:41 ; Search time 4995.85 Seconds

(without alignments)
4322.825 Million cell updates/sec

Title: US-09-700-397-1

Sequence: 1 atgaataaccatccagccaaa.....tcacactgcttctcaattt 1032

Scoring table: IDENTIFY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl:*
1: gb_da:*
2: gb_hlg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_st:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_to:*
27: em_tss:*
28: em_un:*
29: em_vl:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htgo_inv:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
------------	-------	-------------	--------	----	-------------

1	950.4	92.1	1839	9	AF126426	AF126426 Homo sapi
2	804.8	78.0	2040	10	RU16845	U16845 Rattus norv
3	787.2	76.3	1410	10	AF282980	AF282980 Mus muscu
4	642.8	62.3	1058	5	AF292935	AF292935 Gallus ga
5	640.8	62.1	1257	5	GGCEP01	Z72497 G.gallus mr
6	635.8	61.6	1035	5	AB011810	AB011810 Gallus ga
7	623.6	60.4	1638	12	AF271233	AF271233 Synthetic
8	604.8	58.6	1013	5	AF292936	AF292936 Gallus ga
9	566.6	54.9	1533	5	FBNIN55A	Y08170 Gallus gall
10	547.2	53.0	1556	5	AF292934	AF292934 Gallus ga
11	540.6	52.4	2593	4	BT0BCAM	X12672 Bovine mRNA
12	536	51.9	3069	10	RATCALMA	M88709 Rattus norv
13	534.2	51.8	1478	9	HUMOBICAM	L34774 Human (clon
14	518.2	50.2	2179	10	RATCALMB	M88710 Rattus norv
15	518.2	50.2	2337	10	RATCALMC	M88711 Rattus norv
16	464.2	45.0	2935	12	AF271618	AF271618 Synthetic
17	464.2	45.0	3216	5	GGCEP05	AJ225897 Gallus ga
18	434.4	42.1	756	12	AF271232	AF271232 Synthetic
19	357.8	34.7	1107	5	GGTAMPG19	Z94720 G.gallus mr
20	355	34.4	1158	5	GGTAMPG19	Y08171 Gallus gall
21	353.4	34.2	2050	5	GGTAMPG19	Z94719 G.gallus mr
22	348.4	33.8	1194	5	GGTAMPG11	AR030579 Sequence
23	340.6	33.0	924	6	AR030579	AR030574 Sequence
24	340.6	33.0	977	6	AR030574	AR030577 Sequence
25	340.6	33.0	1014	6	AR030577	U41901 Human limb1
26	340.6	33.0	1017	9	HSU41901	AR030575 Sequence
27	340.6	33.0	1238	6	AR030575	U31554 Rattus norv
28	340.6	33.0	1238	10	RNU31554	AR030581 Sequence
29	338.6	32.8	861	6	AR030581	AR030578 Sequence
30	338.6	32.8	912	6	AR030578	AR030580 Sequence
31	337.4	32.7	945	6	AR030580	AR030582 Sequence
32	333.8	32.3	861	6	AR030582	AX079423 Sequence
33	330	32.0	452	6	AX079423	AR030589 Sequence
34	303.6	29.4	756	6	AR030589	AR030590 Sequence
35	298.2	28.9	756	6	AR030590	AJ132999 Gallus Ga
36	280.4	27.2	1059	5	GGAI32999	AB011139 Rattus no
37	279	27.0	1809	10	AB0117139	AP004721 Homo sapi
38	238.4	23.1	42263	2	AP004721	AC016769 Homo sapi
39	235.6	22.8	203572	9	AC016769	AJ132998 Gallus Ga
40	207.6	20.1	786	5	GGAI32998	AC102028 Mus muscu
41	205.6	19.9	71276	5	AC102028	AP000784 Homo sapi
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ALIGNMENTS

RESULT 1
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LOCUS AF126426 1839 bp mRNA linear PRI 06-MAR-2000
DEFINITION Homo sapiens neurotrophin (HNF) mRNA, complete cds.
ACCESSION AF126426
VERSION AF126426.1 GI:7158997
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 1839)
TITLE Cloning and identification of human neurotrophin full length cDNA
JOURNAL Unpublished
AUTHORS Li,G., Jin,J., Tan,X., Hu,S., Yuan,J. and Qiang,B.
REFERENCE 2 (bases 1 to 1839)
TITLE Direct Submissio
JOURNAL Submitted (05-FEB-1999) Biochemistry, Institute of Basic Medical
Sciences, 5 Dong Dan San Tiao, Beijing 100005, PR China
FEATURES
Location/Qualifiers
1..1839
/organism="Homo sapiens"

Db 621 GGCGGACCCAGTGTACCAAGAGTGAAGTACCGTGAACCTATCCACCACTTCTTCA 680

QY 661 agccaaggtacaggtgtcccggtgggacaagaagggacactgcagtgtagaagcctcagc 740

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RESULT 4

AF292935 1058 bp mRNA linear VRT 24-AUG-2000

LOCUS AF292935

DEFINITION Gallus gallus CEPU-Se alpha 2 isoform (CEPU-Se) mRNA, complete cds.

ACCESSION AF292935

VERSION AF292935.1 GI:9887384

KEYWORDS

SOURCE chicken.

ORGANISM Gallus gallus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.

REFERENCE 1 (bases 1 to 1058)

AUTHORS Lodge, A.P., McNamee, C.J., Howard, M.R., Reed, J.E. and Moss, D.J.

TITLE Characterisation of CEPU-Se, a secreted isoform of the IgLON family protein CEPU-1

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 1058)

AUTHORS Lodge, A.P. and Moss, D.J.

TITLE Direct Submission

JOURNAL Submitted (04-AUG-2000) Human Anatomy and Cell Biology, The University of Liverpool, Ashton Street, Liverpool, Merseyside L69 3GE, UK

FEATURES

source

1..1058 Location/Qualifiers

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/db_xref="taxon:9031"

/tissue_type="brain"

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/gene="CEPU-Se"

52..993

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Db 288 GTGGTCTTGACCCGAGGGGTGTCTGTGGCAACACCAAAACCGATACAGCATCCA 347

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Db 348 GATTCACAGACGTGGACGTGTACGTGAAGGGCCCTTACACTGCTCCGTGCGAGACACA 407

QY 363 ccacccaagacacttaggtgtccactctatgtgcaagtatccccaatttagagat 422

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QY 663 tccacatatacttcaagaagccaaggtgacaggtgtcccggtggacaagaaggagcact 722

Db 708 CCACCGTACATCTCGATGCGAAGAGCAACGGTGTGGCGGTGGGCGAGAGGCGATCTCT 767

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QY 843 ctctctcaatgtctctgaacatgactatggaactatgagcttggtgctccacaagaagt 902

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Db 948 AGGAACACCAACCCAGCATGATCTTATGT 981

RESULT 5

GCCEPU

LOCUS	gGCEPUL	1257 bp	mRNA	linear	VRT 29-APR-1996
DEFINITION	G.gallus mRNA for CEPU-1.				
ACCESSION	Z72497.1 GI:1325950				
VERSION	72497.1				
KEYWORDS	Brain; CEPU-1; glycoprotein; GPI-anchor protein.				
SOURCE	Chicken.				
ORGANISM	Gallus gallus				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.				
AUTHORS	1 (bases 1 to 1257)				
TITLE	Spaltmann,F. and Brummendorf,T.				
JOURNAL	CEPU-1, a novel immunoglobulin superfamily molecule, is expressed by developing cerebellar Purkinje cells				
MEDLINE	J. Neurosci. 16 (5), 1770-1779 (1996)				
REFERENCE	96370549				
AUTHORS	2 (bases 1 to 1257)				
TITLE	Brummendorf,T.				
JOURNAL	Direct Submission				
FEATURES	Submitted (17-MAY-1996) Brummendorf T., Max-Planck-Institute for Developmental Biology, Molecular Biology, Spemannstrasse 35, Tuebingen, Germany, 72076				
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ORIGIN					
Query Match	62.1%; Score 640.8; DB 5; Length 1257;				
Best Local Similarity	80.5%; Pred. No. 4.7e-167;				
Matches 750; Conservative	0; Mismatches 182; Indels 0; Gaps 0;				
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63	tgctctggtctcttcacaaggagtgccgctgcgagcggaagatgccaacttcocccaagc 122				
144	CGCACTCCTCTCTTCCCAAGAGATGCCCGGTCCGACGAGGAGATGCCACTTCCCAAGC 203				
123	tatggacaacgtgacggtccgagcgagggagagcgccaccctcaggtctacatttgaca 182				
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243	gtggagctgcatctcgcgtggtctctctgagcaacacacaaagagtaagcatgga 302				

Db	324	GTGGTCTTGGAACCCGAGGGGTGGTGTCTGTGGCCAAACCAAAACCCAGTACACATCCA	383
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QY	423	ttcttaagatatcccaatataaaggaaacatatatagcttacctctactatagaaacttg	482
Db	504	CTTTTGTGACATCTTCCATCATATAAAGTGGCAAGCTAGCTTCACTCCATGACGACGG	563
QY	483	taagaccagagccctacggttactcttgagaaacatctccccaagcggttgttgtaag	542
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QY	543	tgaagcgcgaatactctggaattccaggcaaccgccggagcagtgaggagactcgaagt	602
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Db	744	CCACAGCTACATTTGTGGATCGAAGAGCACCGGTGTCCGCTGGGGCAGAGGGCATCTCT	803
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QY	783	actgatttgaagaaagaagaagggttaaaagtgtaaaagaacgctttccctctaataacct	842
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QY	843	ctctctcaatgtctctgaacatgactacatggaagaactacactgtcgtgtgcctccaagaact	902
Db	924	TTTCTTCAACGCTTCGAGCAGGACGTAAAGGCACTTACCTGGTGTGGCTCCACACACGCT	983
QY	903	gggcgcacacacaatgcccagcaatcatgtatttg	934
Db	984	AGCAAAACCAACACGCCAGCATGATCCTTTATG	1015
RESULT 6			
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LOCUS	AB011810	1035 bp	mRNA linear VRT 09-JUL-1998
DEFINITION	Gallus gallus mRNA for CEPU-1, complete cds.		
ACCESSION	AB011810		
VERSION	AB011810.1 GI:3298455		
KEYWORDS	alternative splicing; CEPU-1.		
SOURCE	Gallus gallus		
ORGANISM	Gallus gallus		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Arcohsauia; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.			
REFERENCE	1 (bases 1 to 1035)		
AUTHORS	Kimura,Y., Shirabe,K. and Tanaka,H.		
TITLE	Direct Submission		
JOURNAL	Submitted (03-MAR-1998) Yoshihide Kimura, Kumamoto University Graduate School of Medical Sciences, Division of Developmental Neurobiology, 4-24-1 Kohonji, Kumamoto, Kumamoto 862-0976, Japan (E-mail:Y.Kimura@go.kumamoto-u.ac.jp, Tel:81-96-373-5244, Fax:81-96-373-5292)		
REFERENCE	2 (sites)		
AUTHORS	Kimura,Y., Shirabe,K., Fukushima,M., Takeshita,M. and Tanaka,H.		
TITLE	CEPU-1: an immunoglobulin superfamily molecule, Has Cell Adhesion Activity and Shows Dynamic Expression Patterns in Chick Embryonic Spinal Cord		
JOURNAL	Unpublished (1998)		


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ORGANISM
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    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
    Phasianinae; Gallus.
REFERENCE
AUTHORS
    Lodge, A.P., McNamee, C.J., Howard, M.R., Reed, J.E. and Moss, D.J.
TITLE
    Characterisation of CEPU-se, a secreted isoform of the Iglon family
    protein CEPU-1
JOURNAL
    Unpublished
    2 (bases 1 to 1013)
    Lodge, A.P. and Moss, D.J.
AUTHORS
    Direct Submission
    Submitted (04-AUG-2000) Human Anatomy and Cell Biology, The
    University of Liverpool, Ashton Street, Liverpool, Merseyside L69
    3SE, UK
FEATURES
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QY 381 ggtcacccatgtgcaagatctcccaaatgttagagattcttaagatcatctcat 440
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Db 381 CGTGCACCTATTTGTSCAAAGTGTGCGCGAAATATACCGAGATCTTTTGTACATCTCAT 440
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Db 441 CAATGAAGGTGTCAAGCTCACCTCATATGACGACGAGGCGACGACGCCACCAAT 500

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RESULT 8
 AF292936 1013 bp mRNA linear VRT 24-AUG-2000
 LOCUS
 DEFINITION Gallus gallus CEPU-se alpha 1 isoform (CEPU-se) mRNA, complete cds.
 ACCESSION AF292936
 VERSION AF292936.1 GI:9887386
 KEYWORDS

REFERENCE	TITLE	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	ORGANISM
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Db 501	CACCTGGAGACACATCTCTCGCCAAACCTGTGGGCTTCATCAGCGAAGAGAGACTTACCTGGA	560					
QY 561	aattcaggcatcaccgcggagagcagtcagggagactacagatgcagtcgctccaatgacgt	620					
Db 561	GATCACAGGCATCACGAGGAGGACAGTGGGCGACGTACGAGTGCATGCTCCAAAGCAGCT	620					
QY 621	ggcgcgcgccttgatgaagagataaagtcacgtgaactatccacataattcaga	680					
Db 621	GGCCGGCGCTGTGTCGACGAGTCMAAGTCACGCTCACTACACCCACCGCTACATCTCGGA	680					
QY 681	agccaaggtatcagtgctcccgctgggaaagagagacacatctgtgaagcctcagc	740					
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QY 741	agtcctcctcagcagaattccagtcagtcagatgcagatgcagaagaactatgaagaagaa	800					
Db 741	TGTGCGCTCTGCTACTTCCAGTGGTACAAAGACACAGCGGCTGCTGGAAGGACGAGA	800					
QY 801	aggagtgaaatgagaaacagacctctctccaaactcatcttcttcaatgctctga	860					
Db 801	AGggcttGAAggGgAAACAAACCCCTCTCTCCGACTCACTTTTCACAGTCCTCGA	860					
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Db 861	GCAGGACTACGGCAACTACACCTCGGTGGCTCCACACACGACTGAGAAACCAAGCGCAG	920					
QY 921	catcatgcattatggt	936					
Db 921	CATGATCCCTTTATGAT	936					
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LOCUS	FFNNH55A	1533 bp	mRNA	linear	VRT 24-APR-1999		
DEFINITION	Gallus gallus mRNA for for OBCAM protein gamma isoform.						
ACCESSION	Y08170						
VERSION	Y08170.2	GI:4688845					
KEYWORDS	OBCAM protein.						
SOURCE	chicken.						
ORGANISM	Gallus gallus						
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;						
	Archosauria; Aves; Neognathae; Galliformes; Phasianidae;						
	Phasianinae; Gallus.						
REFERENCE	1 (bases 1 to 1533)						
AUTHORS	Wilson,D.J., Kim,D.S., Clarke,G.A., Marshall-Clarke,S. and Moss,D.J.						
TITLE	A family of glycoproteins (GP55), which inhibit neurite outgrowth,						
	are members of the ig superfamily and are related to OBCAM,						
	neurotrophin, LAMP and CEPU-1						
JOURNAL	J. Cell. Sci. 109 (Pt 13), 3129-3138 (1996)						
MEDLINE	97157768						
REFERENCE	2 (bases 1 to 1533)						
AUTHORS	Lodge,A.P., Kim,D.S., Howard,M.R., McNamee,C.J., Smith,N. and Moss,D.J.						
TITLE	Cloning of CEPU-S, a secreted isoform of CEPU-1, and OBCAM cDNAs						
JOURNAL	from chick: Structural diversity of Iglon family proteins						
REFERENCE	3 (bases 1 to 1533)						
AUTHORS	Wilson,D.J.A.						
TITLE	Direct Submission						
JOURNAL	Submitted (21-MAR-1996) D.J.A. Wilson, Liverpool University, Human						
REMARK	Anatomy and Cell Biology, Liverpool, L69 3BX, UK						
REFERENCE	4 (bases 1 to 1533)						
AUTHORS	Moss,D.J.						
TITLE	Direct Submission						
JOURNAL	Submitted (20-APR-1999) D.J. Moss, Liverpool University, Human						
COMMENT	Anatomy and Cell Biology, Liverpool, L69 3BX, UK						
FEATURES	On Apr 26, 1999 this sequence version replaced gi:1617043.						
source	1..1533						

RESULT	10
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LOCUS	1566 bp mRNA linear VRT 07-NOV-2000
DEFINITION	Gallus gallus OBcam alpha 1 isoform (OBcam) mRNA, complete cds.
ACCESSION	AF292834
VERSION	AF292934.1 GI:9887362
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SOURCE	Chicken.
ORGANISM	Gallus gallus

FEATURES	Location/Qualifiers
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Query Match	53.08;	Score 547.2;	DB 5;	Length 1556;
Best Local Similarity	73.4%;	Pred. No. 5.1e-14;		

	Matches	699	Conservative	0	Mismatches	253	Indels	0	Gaps	0
QY	81	aggagtgccctgtgcagcggagatgtccaccttccccaaagcctatgtgacaacgctgcagt	140							
Db	97	AGGAGTGCCCGTGGCGAGCGGAGATGCCACCTTCCCAAGGCTATGTGAAACGHTGACTG	156							
QY	141	ccggcagggggagagcgcacaccttaagtgtcaatttggacaacggtgcaccgcggtgtgc	200							
Db	157	GCGGCAAGGGGAGAGTGCACGGCTCAGGTGTACCGTGAAGGACAGGGGTGTAGCGGGGTAGC	216							
QY	201	ctggcctaaacccgcagcacctctctatgtgtgggaatggaanaatgtgtgcgtgactctgc	260							
Db	217	GTCGTTGAACCGCACGCCATCTCTTTATGTCTGGCAATGACAAATGTGTCTATATGCAACCG	276							
QY	261	cgtgtctctcttgcagcacaccccaacgcgagtaacagatcagatccgaacgctgcagt	320							
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Db	577	GATCACGGGCACTACACAGGAGGAGTGGGGGAGATATGAGATGCAGTGTCTGTCAATGATGT	636							
QY	621	gtcccgcccgctgtgtacgagagtaaaagtcaaccggtgaactatcatcaatcatlitaaga	680							
Db	637	GGGCGTCCCAAGTATGTCCGAAATCAAGTCACTGTCACTACCCCGTCTCACTCTCCAA	696							
QY	681	agccaagggtacaagttctcccggtgggcaaaaagggaacscctgcagttgtgaagctcagc	740							
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QY	741	agtcacctcaagaatattccagtggttacaagaagtacgaanaagactgtattgtgaagaaagaa	800							
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QY	801	aggaggtgaaagtgtgaaaaacagacacttctctctcaaaaactcatcttctccaatgtctctga	860							
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QY	981	agctgtgcgtctgtgtgtctctctctgttctgttgcagctgtcttccaatt	1032							
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RESULT	11
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LOCUS	2593 bp mRNA linear MAM 31-MAR-1995
DEFINITION	Bovine mRNA for opoid binding protein/cell adhesion molecule
BT0BCAM	
DEFINITION	BT0BCAM
ACCESSION	X12672

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VERSION      X12672.1 GI:585
KEYWORDS     cell adhesion molecule; glycoprotein; immunoglobulin superfamily;
SOURCE       membrane protein; opioid binding protein.
ORGANISM     Bos taurus
REFERENCE    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS      Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
TITLE        Bovidae; Bovinae; Bos.
JOURNAL      1 (bases 1 to 2593)
REFERENCE    Schofield, P.R.
AUTHORS      Direct Submission
TITLE        Submitted (23-AUG-1988) Schofield P.R.
JOURNAL      2 (bases 1 to 2593)
REFERENCE    Schofield, P.R., McFarland, K.C., Hayflick, J.S., Wilcox, J.N.,
AUTHORS      Cho, T.M., Roy, S., Lee, N.M., Loh, H.H., and Seeburg, P.H.
TITLE        Molecular characterization of a new immunoglobulin superfamily
JOURNAL      protein with potential roles in opioid binding and cell contact
MEDLINE      EMBO J. 8 (2), 489-495 (1989)
COMMENT      Data kindly reviewed (19-may-1989) by Schofield P.R.
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Best Local Similarity 73.6%; Pred. No. 3,8e-139;
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RESULT 12

RATCALMA 3069 bp mRNA linear ROD 08-MAY-1993

LOCUS Ratius norvegicus cell adhesion-like molecule mRNA, complete CDS.

DEFINITION M88709

ACCESSION M88709.1 GI:203245

VERSION

KEYWORDS cell adhesion-like molecule; opioid binding protein.

SOURCE Ratius norvegicus (strain Simonsen ICR) (library: UZ) brain cDNA to mRNA.

ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Ratius.

REFERENCE 1 (bases 1 to 3069)

AUTHORS Lippman, D.A., Lee, N.M., and Loh, H.H.

TITLE Opioid-binding cell adhesion molecule (OBAM)-related clones from a rat brain cDNA library

JOURNAL Gene 117, 249-254 (1992)

MEDLINE 92347701

FEATURES

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1. .3069

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DEFINITION Human (clone PHOM) opioid-binding cell adhesion molecule mRNA,
complete cds.
ACCESSION L34774.1 GI:514373
VERSION L34774.1
KEYWORDS opioid-binding cell adhesion molecule.
SOURCE Homo sapiens (library: Stratagene brain) occipital cortex cDNA to
mRNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1478)
AUTHORS Shark, K.B. and Lee, N.M.
TITLE Cloning, sequencing and localization to chromosome 11 of a cDNA
encoding a human opioid-binding cell adhesion molecule (OBAM)
JOURNAL Unpublished (1994)
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Qy 738 agcaagcctccatcagaagaattccagtgatgacaggaatgacaagaagactgttagaagaa 797
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Qy 798 gaaaggggtgaaagtggaaaacagacacttctctcaaaactcatcttctcaatgtctc 857
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Qy 858 tgaatgaactatgaggaactgaactgtggtggtccccaagaagcttgagccacacatgtc 917
Db 911 TGAAGAGATTAATGGAACATTAATCTGTGTGCTGACGACCAAGCAAGCTGTGGAGAACCAATGC 970
Qy 918 cagcatcactgtattgtgtcagggcgcgtcagcgaagtgagcaacgagcgtcagagag 977
Db 971 CAGCATCAACATTTGATGGGCTTGAGCAGTCAATGATGTGTAAACGTGGCCCTCCAGAGC 1030
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RESULT 14

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RATCALMB 2179 bp mRNA linear ROD 27-Apr-1993
LOCUS RATCALMB
DEFINITION Rattus norvegicus cell adhesion-like molecule mRNA, complete cds.
ACCESSION M88710
VERSION M88710.1 GI:203247
KEYWORDS cell adhesion-like molecule; oploid binding protein.
SOURCE Rattus norvegicus (strain Simonsen ICR) brain cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 2179)
AUTHORS Lippman, D.A., Lee, N.M. and Loh, H.H.
TITLE Opioid-binding cell adhesion molecule (OBAM)-related clones from a
JOURNAL rat brain cDNA library
Gene 117, 249-254 (1992)
MEDLINE 92347701

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            /db_xref="GI:203248"
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BASE COUNT 548 a 533 c 493 g 605 t
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Query Match 50.2%; Score 518.2; DB 10; Length 2179;
Best Local Similarity 72.1%; Pred. No. 6.2e-133;
Matches 689; Conservative 0; Mismatches 263; Indels 3; Gaps 1;
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Db 498 CTGGCTAAGCCGACACCAATCTTACCGTGGGATGACAGAGTGTGCTCAATACACCTCG 557
Qy 261 cgtgtcctcttgagcaacacccaagcgagtagaagcagtagatccagaacgttgatgt 320
Db 558 AGTATCATCTTGTGTCACACAGCCCTACCCATGATCATGATCATGATCATGATCATGATCAT 617
Qy 321 gtagcagagggcccttaccctcgtcgtcgtgtagacagacaccccaagaacctag 380
Db 618 TTAGTACGAAGGTCGTGATACCTCTCTGTGACAGACAGCAATCAACCCAAACCTCCCG 677
Qy 381 ggtccaccctcatgtgcaagatctcccaaatgttagagattcttcagatatccat 440
Db 678 GTTCACTCATATGATGCAAGTCTCTCCCAATATGAAACATCTTCAACATTAATCTGT 737
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Qy 738 agaaagcctccatcagaagaattccagtgatgacaggaatgacaagaagactgttagaagaa 797
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QY 798 gaagaggtgtgaagtggaagaagacotttccttctgaactcatcttcctcaatgctc 857

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RESULT	15
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LOCUS	2337 bp mRNA linear ROD 08-MAY-1993
DEFINITION	Rattus norvegicus cell adhesion-like molecule mRNA, complete cds.
ACCESSION	M88711
VERSION	M88711.1 GI:203249
KEYWORDS	cell adhesion-like molecule; opioid binding protein.
SOURCE	Rattus norvegicus brain cDNA to mRNA.
ORGANISM	Rattus norvegicus

REFERENCE	AUTHORS	TITLE	JOURNAL
1 (bases 1 to 2337)	Lippman, D.A., Lee, N.M. and Loh, H.H.	Opioid-binding cell adhesion molecule (OBAM)-related clones from a rat brain cDNA library	Gene 117, 249-254 (1992)

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            /db_xref="taxon:10116"
            /map="chromosome 9"
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CDS
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BASE COUNT	581 a	578 c	521 g	657 t
ORIGIN				

Query Match	50.28;	Score 518.2;	DB 10;	Length 2337;
Best Local Similarity	72.18;	Pred. No. 6.3e-133;		
Matches 689; Conservative	0;	Mismatches 263;	Indels 3;	Gaps 1;

[illegible]

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QY	321	gltatgacaggagcccttacaccctgcctcggltgagacagacaacaccaccaagaacctag	380
Db	787	TTATGACGAAGSTCCGATACCTGCTCTGTGAGACGACACATACACCACAAACTCCCG	846
QY	381	ggtccacctatctgcaagtatctcccaaatctgtagagatcttcttcagatatccat	440
Db	847	GGTCCACCTCATAGTGAATTTCCCTCCCGAATATGACATCTCCTTCAGACATTAATGT	906
QY	441	taatgaaaggaacaatatctgctcaactcctgtaagcaactgtagaccagagctacggt	500
Db	907	GAAATGAGATTAAGCAGTGTGACCTTTGTTATGTCTCCCAATTTGGCAGACCAACACAGT	966
QY	501	tacttgagacacactctctccca---aagcgttgcctcttgatgtagaagaatactt	557
Db	967	GAAATGGCAGACCTGTGTACTGACGAGAGAGGCCAGGAGCTTTGTAGGTGAATGAATTA	1026
QY	558	ggaattctcaggtcacaccgagagagctcagggagactcagfctgagfctccaatga	617
Db	1027	GGAATCTCAGACATCAACAGCGCCACCAATCTGGAGATGATGAGTGCAGCGCTTGAATGA	1086
QY	618	cgtgcgcgcgcctcgtgtagagagataagfctacccgtgaactatccacatacatctt	677
Db	1087	TGTGCTGCACCTGATGTGTGGAAATTAATAATCTTAATACATATCTCCCTAATATCTC	1146
QY	678	agaagccaaggtataagfctcccgctggagaaagaaggagacatcgaftgtaagcttc	737
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QY	738	agcagtcctccctcagaagaatctcagfctgaglacaaagatctacaaagaactgtatgaagaa	797
Db	1207	TGCTGTCCCATGAGCTGTAATTCAGTGTGTTCAAGGAAGATACGAGTTAACCATGCGCT	1266
QY	798	gaaaggggtgaaagtggaaacacagaccttctctctccaactcatctcttcttaagtctc	857
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QY	858	tgaactgactctgggaactacactctgcctgcgcctccaaagaactgggccaacccaatgc	917
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QY	978	ggcagagctgcctcgtgcgtcgtcctctctctgtcttgtaactcgtcttccaattt	1032
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Job time: 13435 sec

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: July 11, 2002, 22:58:27 ; Search time 66.43 Seconds

(without alignments)
126.485 Million cell updates/sec

Title: US-09-700-397-3
Perfect score: 1806
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Scoring table: BLOSUM62
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Searched: 231628 seqs, 24425594 residues

Total number of hits satisfying chosen parameters: 231628

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	926.5	51.3	338	2	US-08-414-657D-42
2	926.5	51.3	338	2	US-08-414-657D-43
3	923.5	51.1	325	2	US-08-414-657D-2
4	923.5	51.1	325	2	US-08-414-657D-41
5	923.5	51.1	338	2	US-08-414-657D-60
6	908	50.3	308	2	US-08-414-657D-46
7	907	50.2	315	2	US-08-414-657D-47
8	905	50.1	310	2	US-08-414-657D-45
9	902	49.9	304	2	US-08-414-657D-44
10	886.5	49.1	287	2	US-08-414-657D-48
11	885.5	49.0	287	2	US-08-414-657D-49
12	796.5	44.1	252	2	US-08-414-657D-56
13	795.5	44.0	252	2	US-08-414-657D-57
14	261	14.5	1395	4	US-09-540-245A-15
15	256	14.2	421	2	US-08-659-984A-1
16	256	14.2	421	4	US-08-660-531-1
17	256	14.2	444	4	US-08-659-984A-5
18	249.5	13.8	607	2	US-08-752-307B-12
19	249.5	13.6	1018	1	US-08-408-093-6
20	246.5	13.6	1018	1	US-08-408-420A-6
21	246.5	13.6	1018	1	US-08-714-901-6
22	246.5	13.6	1018	3	US-08-040-741-6
23	243.5	13.5	605	2	US-08-752-307B-8
24	243.5	13.5	1018	1	US-08-452-052-2
25	237	13.1	73	2	US-08-414-657D-50
26	237	13.1	73	2	US-08-414-657D-51
27	237	13.1	73	2	US-08-414-657D-51

28	230.5	12.8	868	1	US-08-374-834-1	Sequence 1, Appl
29	230.5	12.8	868	2	US-08-644-271-1	Sequence 1, Appl
30	229.5	12.7	869	1	US-08-374-834-15	Sequence 15, Appl
31	229.5	12.7	869	2	US-08-644-271-29	Sequence 29, Appl
32	225.5	12.5	478	5	PCT-US95-08493-15	Sequence 19, Appl
33	225.5	12.5	860	5	PCT-US95-08493-19	Sequence 21, Appl
34	225.5	12.5	868	5	PCT-US95-08493-21	Sequence 5, Appl
35	219	12.1	1091	3	US-08-986-485-5	Sequence 2, Appl
36	219	12.1	1101	3	US-08-986-485-2	Sequence 52, Appl
37	213	11.8	59	2	US-08-414-657D-52	Sequence 53, Appl
38	212	11.7	59	2	US-08-414-657D-53	Sequence 9, Appl
39	211	11.7	615	2	US-08-752-307B-9	Sequence 18, Appl
40	208.5	11.5	1651	4	US-09-540-245A-18	Sequence 13, Appl
41	205.5	11.4	596	2	US-08-752-307B-13	Sequence 2, Appl
42	201	11.1	946	5	PCT-US95-08493-13	Sequence 2, Appl
43	199	11.0	1241	4	US-09-040-774-2	Sequence 25, Appl
44	197.5	10.9	1447	4	US-09-041-886-25	Sequence 2, Appl
45	197.5	10.9	1447	5	PCT-US94-05277-2	

ALIGNMENTS

RESULT 1
US-08-414-657D-42
; Sequence 42, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Lambda System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-414-657D-42
Query Match 51.3%; Score 926.5; DB 2; Length 338;
Best Local Similarity 55.1%; Pred. No. 1.3e-84;

US-08-414-657D-43

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INFORMATION FOR SEQ ID NO.: 2.
SEQUENCE CHARACTERISTICS:

TELECOMMUNICATION INFORMATION:

ATTORNEY/AGENT INFORMATION:


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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
;
;
; TELEX:
; INFORMATION FOR SEQ ID NO: 47:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 315 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-08-414-657D-47

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Best Local Similarity 56.3%; Pred. No. 1e-82;
Matches 170; Conservative 58; Mismatches 70; Indels 4; Gaps 3;

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QY 319 VS 320
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DB 314 IN 315

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RESULT 8
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; Sequence 45, Application US/08414657D
; Patent No. 5861283
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; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
;
; COMPUTER READABLE FORM:

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; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
;
;
; TELEX:
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 310 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
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US-08-414-657D-45

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Query Match          50.1%; Score 905; DB 2; Length 310;
Best Local Similarity 55.3%; Pred. No. 1.6e-82;
Matches 173; Conservative 59; Mismatches 77; Indels 4; Gaps 3;

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DB 59 EKRAHEYSRLQKVDYDESGYCSVQTOHEKTSQVYLIVQVSPKISNISDVTVNEG 118
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QY 211 VRRKVTYVNPYPYISPAKGTGVPGKGLQCEASAVPSAEFQWYKDDKRLIEGKGVK 270
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 179 DVKQVKTVNPYPYITTESKSNPEATGRQASLKCEASAVPADPEWYRDDTR-INSANGLE 237
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 271 VENRPFSLKLIIFNVSEHDYNTVCVANSKLGHTNNSIMLFGPANSVSGTSRRAGCV 330
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 238 IKSTEGSSLTVTNTEEHYGNVCVANKLGVTNLSLVLRPGSVRG1-NGSISLAVPL 296
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 331 WLPLVLVHLHLK 343
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DB 297 WLIAASLFCLSK 309

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RESULT 9
US-08-414-657D-44
; Sequence 44, Application US/08414657D
; Patent No. 5861283
;
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville

```

```
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ. ID NO.: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 304 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-44
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Query Match          49.9%; Score 902; DB 2; Length 304;
Best Local Similarity 55.5%; Pred. No. 3.1e-82;
Matches 171; Conservative 59; Mismatches 74; Indels 4; Gaps 3;
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QY 31 VSSGATPPKAMDVNTYRGQESATLCTIDNRVTRVAMLRSTILTAGDKCLDPRVYL 90
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
1 VNSVD-FNRGTDNITVRQGDYALILRCVLEDKNSKVAMLRSGILFAGHDKMSLDPRYL 58
QY 91 LSNTOYSEIQLWVDYDGGPYTCVQTDNHPKTSRYHLIVQVSPKIVEISSDISINEG 150
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
59 EKRHSLEYSIRQLQVVDYDGGSYTCVQTHPEPKTSQYLLIVQVPPKISNISDVTVMG 118
Db
QY 151 NNIISLTGATGRPEPTVWRHISPKAVGVSEDEYLEIQTREQSGDYECASNDVAAP 210
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
119 SNVTIVCANAGRPEPTVWRHLPTGREFEGESEYLEITGITREQSGKYECKAANEVSSA 178
Db
QY 211 VYRRKVVVNPPIYSIAKGTGVPGQKGTLOCESAVPSAEFQWTKDKRLIEGKGVK 270
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
179 DVAKQVAVVNPPIITTESKSNKATGTGRQASLKCEASAVPAPDEFWRDTR-INSANGLE 237
Db
QY 271 VENRPFLSKLIFPNVSEHDYNTCVASNKLGHNTASIMLFGQAVSEVNGTSRRACV 330
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
238 IKSTEGQSSLTIVNTTEHGYNTCYAANKLGVTNASLVLPFGSVRGL-NSISLAVPL 296
Db
QY 331 WLLPLVL 338
||| | |
297 WLLASL 304
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RESULT 10
US-08-414-657D-48
; Sequence 48, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
```

```
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ. ID NO.: 48:
SEQUENCE CHARACTERISTICS:
LENGTH: 287 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-48
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Query Match          49.1%; Score 886.5; DB 2; Length 287;
Best Local Similarity 56.6%; Pred. No. 1e-80;
Matches 164; Conservative 57; Mismatches 66; Indels 3; Gaps 2;
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QY 31 VSSGATPPKAMDVNTYRGQESATLCTIDNRVTRVAMLRSTILTAGDKCLDPRVYL 90
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1 VNSVD-FNRGTDNITVRQGDYALILRCVLEDKNSKVAMLRSGILFAGHDKMSLDPRYL 58
Db
QY 91 LSNTOYSEIQLWVDYDGGPYTCVQTDNHPKTSRYHLIVQVSPKIVEISSDISINEG 150
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
59 EKRHSLEYSIRQLQVVDYDGGSYTCVQTHPEPKTSQYLLIVQVPPKISNISDVTVMG 118
Db
QY 151 NNIISLTGATGRPEPTVWRHISPKAVGVSEDEYLEIQTREQSGDYECASNDVAAP 210
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
119 SNVTIVCANAGRPEPTVWRHLPTGREFEGESEYLEITGITREQSGKYECKAANEVSSA 178
Db
QY 211 VYRRKVVVNPPIYSIAKGTGVPGQKGTLOCESAVPSAEFQWTKDKRLIEGKGVK 270
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
179 DVAKQVAVVNPPIITTESKSNKATGTGRQASLKCEASAVPAPDEFWRDTR-INSANGLE 237
Db
QY 271 VENRPFLSKLIFPNVSEHDYNTCVASNKLGHNTASIMLFGQAVSEVNGTSRRACV 320
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
238 IKSTEGQSSLTIVNTTEHGYNTCYAANKLGVTNASLVLPFGSVAGIN 287
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RESULT 11
US-08-414-657D-49
; Sequence 49, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
```

Page 7

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSO for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 56:
SEQUENCE CHARACTERISTICS:
LENGTH: 252 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-56

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[illegible]

ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 421 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-659-984A-1

Query Match 14.28; Score 256; DB 2; Length 421;
Best Local Similarity 26.78; Pred. No. 2.7e-17;
Matches 92; Conservative 54; Mismatches 126; Indels 72; Gaps 16;

QY 31 VRSGDTEPKANDNTVROGESATLCTID-NRVT RVAMLN-RSTLYAGNDKCLDPYV 88
DB 5 VKSGSGQFP-LTONVTVGGTALITCRVDQNDNTSLQMSNPAQOTLIFDDKALRDNRI 63
QY 89 VLSNPTQYSIEIONVDVDEGPTCSVQTDNHPKTSRVHLIVQSPKIVEISDIS-I 147
DB 64 ELVRASWHELISVSQVSLSDGQYCSLFT-MPKTSKAYLVGLGVEKPKQISGFSPV 122
QY 148 NEGNNISLNCIATG-RPEPYVTVRHISPKAVGVSEDEYLEIGITREQSG----- 197
DB 123 MEGDLMLQCTKTSKSKPADIRW-----FKNDKEIKDYKLYKEEDANRKTFTVSST 173
QY 198 -DYECASND-----VAAPVVRKVVTVNTPYISFAKGTGP-VGQKGTIQ 242
DB 174 LDRVRVSDDGVAVICRVDHESLNAPQVAMQVLEIHTPSVKIIPSTPPQEGQPLILF 233
QY 243 CEASAVPSAE-FQWTKD-----DKRLIEGKKGVKVENRPPLSKLIFNVSEHDYGNVT 294
DB 234 CESKGRPLPEPYLWTKDQGEI.PDPDRKVVSGRE-----LNIILFLN-KTDNGTYR 281
QY 295 CVAENKLGHTNASIMLFGPGAVSEVSNGTSSRRAGCVMILPLLVL 338
DB 282 CEATNTIGOSASAEVLI-----VHDVFN-----TLIPPTII 312

Search completed: July 12, 2002, 00:34:57
Job time: 5790 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 12, 2002, 00:25:57 ; Search time 277.62 Seconds

(without alignments)
436.140 Million cell updates/sec

Title: US-09-700-397-3

Perfect score: 1806

Sequence: 1 MKTIQKMNHSISNAIFNGL.....RRAGCVILLPLVLLHLIKF 344

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 3502263 seqs, 351980561 residues

3502263

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_AA_Main:*
1: /cgn2_6/ptodata/2/paa/US087.COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US086.COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US085.COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US084.COMB.pep.*
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24: /cgn2_6/ptodata/2/paa/US064.COMB.pep.*
25: /cgn2_6/ptodata/2/paa/US063.COMB.pep.*
26: /cgn2_6/ptodata/2/paa/US062.COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1806	100.0	344	17	US-09-380-138-523
2	1806	100.0	344	21	US-09-700-397-3
3	1806	100.0	344	23	US-09-918-585A-523
4	1806	100.0	344	23	US-09-978-188A-523
5	1806	100.0	344	23	US-09-978-189-523
6	1806	100.0	344	23	US-09-978-191A-523
7	1806	100.0	344	23	US-09-978-192-523

8	1806	100.0	344	23	US-09-978-192A-523
9	1806	100.0	344	23	US-09-978-193A-523
10	1806	100.0	344	23	US-09-978-194A-523
11	1806	100.0	344	23	US-09-978-295A-523
12	1806	100.0	344	23	US-09-978-298A-523
13	1806	100.0	344	23	US-09-978-299A-523
14	1806	100.0	344	23	US-09-978-585A-523
15	1806	100.0	344	23	US-09-978-585A-523
16	1806	100.0	344	23	US-09-978-608A-523
17	1806	100.0	344	23	US-09-978-608A-523
18	1806	100.0	344	23	US-09-978-643A-523
19	1806	100.0	344	23	US-09-978-643A-523
20	1806	100.0	344	23	US-09-978-657A-523
21	1806	100.0	344	23	US-09-978-657A-523
22	1806	100.0	344	23	US-09-978-802A-523
23	1806	100.0	344	23	US-09-978-802A-523
24	1806	100.0	344	23	US-09-981-915A-523
25	1806	100.0	344	23	US-09-999-830A-523
26	1806	100.0	344	23	US-09-999-832A-523
27	1806	100.0	344	23	US-09-999-833A-523
28	1806	100.0	344	23	US-09-999-834A-523
29	1806	100.0	344	24	US-10-002-796-104
30	1806	100.0	344	24	US-10-002-967A-523
31	1806	100.0	344	24	US-10-013-922A-523
32	1806	100.0	344	24	US-10-017-191A-523
33	1806	100.0	344	24	US-10-020-445A-523
34	1806	100.0	344	24	US-10-028-072-376
35	1806	100.0	344	24	US-10-066-193-104
36	1806	100.0	344	24	US-10-066-198-104
37	1806	100.0	344	24	US-10-066-203-104
38	1806	100.0	344	24	US-10-066-211-104
39	1806	100.0	344	24	US-10-066-269-104
40	1806	100.0	344	24	US-10-066-273-104
41	1806	100.0	344	24	US-10-066-494-104
42	1806	100.0	344	24	US-10-066-500-104
43	1806	100.0	344	24	US-10-081-056-56
44	1806	100.0	355	18	US-09-488-725A-5430
45	1799	99.6	344	19	US-09-544-511-4

ALIGNMENTS

RESULT 1
US-09-380-138-523
; Sequence 523, Application US/09380138
; GENERAL INFORMATION:
; APPLICANT: Wood, William I.
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin
; APPLICANT: Yuan, Jean
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding the Same
; FILE REFERENCE: P2630RLE
; CURRENT APPLICATION NUMBER: US/09/380,138
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: US 60/077,450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: US 60/077,632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: US 60/077,641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: US 60/077,649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: US 60/077,791
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: US 60/078,004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: US 09/040,220
; PRIOR FILING DATE: 1998-03-17
; PRIOR APPLICATION NUMBER: US 60/078,886

PRIOR APPLICATION NUMBER:	1998-04-23	US 60,082,796
PRIOR FILING DATE:	1998-04-23	
PRIOR APPLICATION NUMBER:	US 60,083,336	
PRIOR FILING DATE:	1998-04-27	
PRIOR APPLICATION NUMBER:	US 60,083,322	
PRIOR FILING DATE:	1998-04-28	
PRIOR APPLICATION NUMBER:	US 60,083,392	
PRIOR FILING DATE:	1998-04-29	
PRIOR APPLICATION NUMBER:	US 60,083,499	
PRIOR FILING DATE:	1998-04-29	
PRIOR APPLICATION NUMBER:	US 60,083,545	
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PRIOR APPLICATION NUMBER:	US 60,083,455	
PRIOR FILING DATE:	1998-04-29	
PRIOR APPLICATION NUMBER:	US 60,083,558	
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PRIOR APPLICATION NUMBER:	US 60,083,456	
PRIOR FILING DATE:	1998-04-29	
PRIOR APPLICATION NUMBER:	US 60,083,559	
PRIOR FILING DATE:	1998-04-29	
PRIOR APPLICATION NUMBER:	US 60,083,500	
PRIOR FILING DATE:	1998-04-29	
PRIOR APPLICATION NUMBER:	US 60,083,742	
PRIOR FILING DATE:	1998-04-30	
PRIOR APPLICATION NUMBER:	US 60,084,366	
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PRIOR APPLICATION NUMBER:	US 60,084,441	
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PRIOR APPLICATION NUMBER:	US 60,084,637	
PRIOR FILING DATE:	1998-05-07	
PRIOR APPLICATION NUMBER:	US 60,084,643	
PRIOR FILING DATE:	1998-05-07	
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PRIOR APPLICATION NUMBER:	US 60,085,689	
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PRIOR APPLICATION NUMBER:	US 60,085,700	
PRIOR FILING DATE:	1998-05-15	
PRIOR APPLICATION NUMBER:	US 60,086,023	
PRIOR FILING DATE:	1998-05-18	
PRIOR APPLICATION NUMBER:	US 60,086,486	
PRIOR FILING DATE:	1998-05-22	
PRIOR APPLICATION NUMBER:	US 60,086,414	

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; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: US 60/086,392
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: US 60/086,430
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: US 60/087,208
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: US 60/087,098
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: US 60/087,106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: US 60/094,651
; PRIOR FILING DATE: 1998-07-30
; PRIOR APPLICATION NUMBER: US 60/100,038
; PRIOR FILING DATE: 1998-09-11
; NUMBER OF SEQ ID NOS: 538
; SEQ ID NO 523
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-380-138-523
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Query Match 100.0%; Score 1806; DB 17; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MKTIQPKMNSISMAIFGLAALCLFQGVPRSGDATPPKAMDVTVROGESATLCTID 60
D 1 MKTIQPKMNSISMAIFGLAALCLFQGVPRSGDATPPKAMDVTVROGESATLCTID 60
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D 61 NRTYRAMLNRSSTIIYAGNDKCLDPRVYLLSTQYISIELQNVADVDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVWHRHISPKAVGFV 180
D 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVWHRHISPKAVGFV 180
QY 181 SEDEYLEIGITREGSGDYECASNDVAAPVYARKVYVNPPIYISAKGTGVPVGOKGT 240
D 181 SEDEYLEIGITREGSGDYECASNDVAAPVYARKVYVNPPIYISAKGTGVPVGOKGT 240
QY 241 LQCEASAVPSAFQWYKDKRLIEGKKGKVENRPFSLKLFVNSHDYGNNTCYASNK 300
D 241 LQCEASAVPSAFQWYKDKRLIEGKKGKVENRPFSLKLFVNSHDYGNNTCYASNK 300
QY 301 LGHTNASIMLFGPGAVSEVSNSTSRAGCWMLLPLLVLHLILKF 344
D 301 LGHTNASIMLFGPGAVSEVSNSTSRAGCWMLLPLLVLHLILKF 344
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RESULT 2
US-09-700-397-3
; Sequence 3, Application US/09700397
; GENERAL INFORMATION:
; APPLICANT: Ono Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: Novel Polypeptides, cDNA encoding the same, and use of them
; FILE REFERENCE: Q61459
; CURRENT APPLICATION NUMBER: US/09/700,397
; CURRENT FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: JP 10-131815
; PRIOR FILING DATE: 1998-05-14
; PRIOR APPLICATION NUMBER: PCT/JP99/02485
; PRIOR FILING DATE: 1999-05-13
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
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; OTHER INFORMATION: Clone OC001 derived from human brain
US-09-700-397-3
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Query Match 100.0%; Score 1806; DB 21; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MKTIQPKMNSISMAIFGLAALCLFQGVPRSGDATPPKAMDVTVROGESATLCTID 60
D 1 MKTIQPKMNSISMAIFGLAALCLFQGVPRSGDATPPKAMDVTVROGESATLCTID 60
QY 61 NRTYRAMLNRSSTIIYAGNDKCLDPRVYLLSTQYISIELQNVADVDEGPTCSVQTD 120
D 61 NRTYRAMLNRSSTIIYAGNDKCLDPRVYLLSTQYISIELQNVADVDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVWHRHISPKAVGFV 180
D 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVWHRHISPKAVGFV 180
QY 181 SEDEYLEIGITREGSGDYECASNDVAAPVYARKVYVNPPIYISAKGTGVPVGOKGT 240
D 181 SEDEYLEIGITREGSGDYECASNDVAAPVYARKVYVNPPIYISAKGTGVPVGOKGT 240
QY 241 LQCEASAVPSAFQWYKDKRLIEGKKGKVENRPFSLKLFVNSHDYGNNTCYASNK 300
D 241 LQCEASAVPSAFQWYKDKRLIEGKKGKVENRPFSLKLFVNSHDYGNNTCYASNK 300
QY 301 LGHTNASIMLFGPGAVSEVSNSTSRAGCWMLLPLLVLHLILKF 344
D 301 LGHTNASIMLFGPGAVSEVSNSTSRAGCWMLLPLLVLHLILKF 344
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RESULT 3
US-09-918-585A-523
; Sequence 523, Application US/09918585A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Gueney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kjaevlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC1
; CURRENT APPLICATION NUMBER: US/09/918,585A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
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[illegible]

PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086023
PRIOR FILING DATE: 1998-05-18

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTTTPKMHNSISAITGTAALCLFQGVPRVSGDAPFPKAMNVTYRQGESATLRCITD 60
DB 1 MTTTPKMHNSISAITGTAALCLFQGVPRVSGDAPFPKAMNVTYRQGESATLRCITD 60
QY 61 NRYTVAMLNSTLLYAGNDKWCIDPRVYLSNFTQYSLEIONVDYDEGPTCSVOTD 120
DB 61 NRYTVAMLNSTLLYAGNDKWCIDPRVYLSNFTQYSLEIONVDYDEGPTCSVOTD 120
QY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCTIANGREPPVTWRHISPRAGFV 180
DB 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCTIANGREPPVTWRHISPRAGFV 180
QY 181 SEDEYIEIQTITREOSGDECSASNDYAPVVRKXKVYVNPPIISAAGTGVPGQGT 240
DB 181 SEDEYIEIQTITREOSGDECSASNDYAPVVRKXKVYVNPPIISAAGTGVPGQGT 240
QY 241 LQCEASAVPSAEFQWYKDDRLLEGGKGVKVENRPFISKLFFVNSEHDEYGNVTCVASNK 300
DB 241 LQCEASAVPSAEFQWYKDDRLLEGGKGVKVENRPFISKLFFVNSEHDEYGNVTCVASNK 300
QY 301 LGHTNASIMLFGPAGVSEVSGNSTRRAGCWWLLPLLYLHLK 344
DB 301 LGHTNASIMLFGPAGVSEVSGNSTRRAGCWWLLPLLYLHLK 344

RESULT 4
US-09-978-188A-523

Sequence 523, Application US/09978188A
GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Destrofers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC8
CURRENT APPLICATION NUMBER: US/09/978.188A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
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PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-01

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 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085579
 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085580
 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085573
 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085704
 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085697
 / PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 23; Length 344;
 Best Local Similarity 100.0%; Pred. No. 1.3e-163;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTTPKXHSISWALFTGLALCLFCQVPRSDATFPKAMNVTYQGSATLCTCID 60
 DB 1 MKTTPKXHSISWALFTGLALCLFCQVPRSDATFPKAMNVTYQGSATLCTCID 60
 QY 61 NRVTRVAMLRSTILYAGNDKMCIDPRVLLSNTOYSTEIONDVYDEGYTCVQTD 120
 DB 61 NRVTRVAMLRSTILYAGNDKMCIDPRVLLSNTOYSTEIONDVYDEGYTCVQTD 120
 QY 121 NHPKTSRVHLIVQVSPKRIVEISSDISINEGNISLTCIATGRPEPTVTRHISPRANGFV 180
 DB 121 NHPKTSRVHLIVQVSPKRIVEISSDISINEGNISLTCIATGRPEPTVTRHISPRANGFV 180
 QY 181 SDEYLETIGITRQSGDYECSASNDVAAPVRRVKTATVPYPISEAKGIVPGQKGT 240
 DB 181 SDEYLETIGITRQSGDYECSASNDVAAPVRRVKTATVPYPISEAKGIVPGQKGT 240
 QY 241 LQCEASVPSAEFQWKDKRLIEGKKGKVKYENRPFISKLIFFNVSEHDYNGYTCVANSK 300
 DB 241 LQCEASVPSAEFQWKDKRLIEGKKGKVKYENRPFISKLIFFNVSEHDYNGYTCVANSK 300
 QY 301 LGHTNASTIMLFGPGAVSEVSNQTSRRACVWLLPLVLHLLKE 344
 DB 301 LGHTNASTIMLFGPGAVSEVSNQTSRRACVWLLPLVLHLLKE 344

RESULT 5
 US-09-978-189-523
 / Sequence 523; Application US/09978189
 / GENERAL INFORMATION:
 / APPLICANT: Ashkenazi, Avi
 / APPLICANT: Baker Kevin P.
 / APPLICANT: Botstein, David
 / APPLICANT: Desnoyers, Luc
 / APPLICANT: Eaton, Dan
 / APPLICANT: Ferrara, Napoleon
 / APPLICANT: Fliviaroff, Ellen
 / APPLICANT: Fong, Sherman
 / APPLICANT: Gao, Wei-Qiang
 / APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin J.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
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PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-04-22
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PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
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PRIOR FILING DATE: 1998-04-23
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PRIOR FILING DATE: 1998-04-27
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PRIOR FILING DATE: 1998-04-28
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PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-30

;; PRIOR APPLICATION NUMBER: 60/084366
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;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e+163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPKMNSISWALFTGLALCLFCQVPPRSQDATFFKAMNVTVRQGESATLRCTID 60
DB 1 MKTIQPKMNSISWALFTGLALCLFCQVPPRSQDATFFKAMNVTVRQGESATLRCTID 60
QY 61 NNEVTVAMLNSTILYAGNDKMCIDPRVLLSNTOYOYSEIQNVVDYDEGYTOSVOTD 120
DB 61 NNEVTVAMLNSTILYAGNDKMCIDPRVLLSNTOYOYSEIQNVVDYDEGYTOSVOTD 120
QY 121 NHPKTSRVHLIVQSPKRIEISDISINEGNNSILTCIATGREPTVTRHISPRAGFEV 180
DB 121 NHPKTSRVHLIVQSPKRIEISDISINEGNNSILTCIATGREPTVTRHISPRAGFEV 180
QY 181 SEDVLELTQGITRQSGDYECSSANDVAAPVRRKVTYVPPYISEAGTGVPGOKGT 240
DB 181 SEDVLELTQGITRQSGDYECSSANDVAAPVRRKVTYVPPYISEAGTGVPGOKGT 240
QY 241 LCCESAVPSAEQWYKDKRLIEGKKGKVENPPLSKLIFPNVSEHDYGYTCVASNK 300
DB 241 LCCESAVPSAEQWYKDKRLIEGKKGKVENPPLSKLIFPNVSEHDYGYTCVASNK 300
QY 301 LGHTNASIMLFGGAVSEVNGTSRRACVWLLPLVLLHLLEF 344
DB 301 LGHTNASIMLFGGAVSEVNGTSRRACVWLLPLVLLHLLEF 344

RESULT 6

US-09-978-191A-523
;; Sequence 523, Application US/09978191A
;; GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Ari
;; APPLICANT: Baker Kevin P.
;; APPLICANT: Bolstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleon
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth J.
;; APPLICANT: Kijavini, Ivar J.
;; APPLICANT: Kuo, Sophia S.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James;
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Shelton, David L.
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C4
;; CURRENT APPLICATION NUMBER: US/09/978,191A
;; PRIOR APPLICATION NUMBER: 2001-10-15
;; PRIOR APPLICATION NUMBER: 09/918585
;; PRIOR FILING DATE: 2001-07-30
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/064249
;; PRIOR FILING DATE: 1997-11-03
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
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;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077649
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077791
;; PRIOR FILING DATE: 1998-03-12
;; PRIOR APPLICATION NUMBER: 60/078004
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;; PRIOR FILING DATE: 1998-03-20
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;; PRIOR FILING DATE: 1998-03-20
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;; PRIOR FILING DATE: 1998-03-27
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;; PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/079663
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PRIOR FILING DATE: 1998-05-06
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PRIOR FILING DATE: 1998-05-06
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
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PRIOR APPLICATION NUMBER: 60/085339
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PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
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PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
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PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-163; Indels 0; Gaps 0;
Matches 344; Conservative 0; Mismatches 0;

QY 1 MKTIOKRMNSISMAIFGTALALCLFQGVYVRSGDATFPKAMDNTYVQGESATLNCITD 60
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DB 1 MKTIOKRMNSISMAIFGTALALCLFQGVYVRSGDATFPKAMDNTYVQGESATLNCITD 60
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QY 61 NRYTRVAMINRSTILYAGNDKWCIDPRVLLSNTOTQYSIEIIONVDYDDEGPTCSVQTD 120
|||||
DB 61 NRYTRVAMINRSTILYAGNDKWCIDPRVLLSNTOTQYSIEIIONVDYDDEGPTCSVQTD 120
|||||
QY 121 NHRKTSRVHLIVQVSPKIVELISSDISINBGNNSISLCTATGPRPEPTVMHISPKAVGV 180
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DB 121 NHRKTSRVHLIVQVSPKIVELISSDISINBGNNSISLCTATGPRPEPTVMHISPKAVGV 180
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QY 181 SEDEVLEIGITRQSGDYECASANDVAAPVYRKYVIVNVPYISAKGTGVPVGOKGT 240


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Db 181 SDELELEGGITREQSGDEGCASNDVAAPVVRKVKTVPYPISEAKGVGVQKGT 240
QY 241 LCCESAVPSAEFQWTKDKRLIEKKGKVENPPLSKLIFPNSEHDYNTCVASNK 300
Db 241 LCCESAVPSAEFQWTKDKRLIEKKGKVENPPLSKLIFPNSEHDYNTCVASNK 300
QY 301 LGHTNASIMLFGPAVSEVNGSRRACGWLPLPLVHLHLKEF 344
Db 301 LGHTNASIMLFGPAVSEVNGSRRACGWLPLPLVHLHLKEF 344

RESULT 7
US-09-978-192-523
; Sequence 523, Application US/09978192
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C9
; CURRENT APPLICATION NUMBER: US/09/978,192
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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; PRIOR FILING DATE: 1998-04-09
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; PRIOR FILING DATE: 1998-04-22
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PRIOR APPLICATION NUMBER: 60/082796
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PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15

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Query Match      100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MKTIQPKMNSISMAIFTLAALCLFGVPEVRSGDATFPKANDNTYRQGESATLKTID 60
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DB 1 MKTIQPKMNSISMAIFTLAALCLFGVPEVRSGDATFPKANDNTYRQGESATLKTID 60
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QY 61 NRTYRAMLNRSITLYAGNDKWCIDPPVLLSNTQTOYSIEIQNDVYDEGPTGCVQTD 120
    |||||
DB 61 NRTYRAMLNRSITLYAGNDKWCIDPPVLLSNTQTOYSIEIQNDVYDEGPTGCVQTD 120
    |||||
QY 121 NHRKTSVHLIVQVSPKIVEISDISINEGNMISLTCITATGPEPTYWRHISKAVGV 180
    |||||
DB 121 NHRKTSVHLIVQVSPKIVEISDISINEGNMISLTCITATGPEPTYWRHISKAVGV 180
    |||||
QY 181 SEDTYLEIGITPEOSGYECSASNDVAAPVVRVVTNYNPPYISEKGTGVPVCGKGT 240
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DB 181 SEDTYLEIGITPEOSGYECSASNDVAAPVVRVVTNYNPPYISEKGTGVPVCGKGT 240
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QY 241 LQCSASVPSAERQWYKDDKRLIEGKGVENRPLSKLIFPNVSEHDYGNITCVASNK 300
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DB 241 LQCSASVPSAERQWYKDDKRLIEGKGVENRPLSKLIFPNVSEHDYGNITCVASNK 300
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QY 301 LGHTNASIMLFGPGAVSEVSGTSTRRAGCWMLLPLVHLHLKF 344
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RESULT 8
US-09-978-192a-523
; Sequence 523, Application US/09978192a
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC9
; CURRENT APPLICATION NUMBER: US/09/978,192a
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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; PRIOR APPLICATION NUMBER: 60/066364
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; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10

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22 PRIOR FILING DATE: 1998-03-26
23 PRIOR APPLICATION NUMBER: 60/079664
24 PRIOR FILING DATE: 1998-03-27
25 PRIOR APPLICATION NUMBER: 60/079689
26 PRIOR FILING DATE: 1998-03-27
27 PRIOR APPLICATION NUMBER: 60/079663
28 PRIOR FILING DATE: 1998-03-27
29 PRIOR APPLICATION NUMBER: 60/079728
30 PRIOR FILING DATE: 1998-03-27
31 PRIOR APPLICATION NUMBER: 60/079786
32 PRIOR FILING DATE: 1998-03-27
33 PRIOR APPLICATION NUMBER: 60/079920
34 PRIOR FILING DATE: 1998-03-30
35 PRIOR APPLICATION NUMBER: 60/079923
36 PRIOR FILING DATE: 1998-03-30
37 PRIOR APPLICATION NUMBER: 60/080105
38 PRIOR FILING DATE: 1998-03-31
39 PRIOR APPLICATION NUMBER: 60/080107
40 PRIOR FILING DATE: 1998-03-31
41 PRIOR APPLICATION NUMBER: 60/080165
42 PRIOR FILING DATE: 1998-03-31
43 PRIOR APPLICATION NUMBER: 60/080194
44 PRIOR FILING DATE: 1998-03-31
45 PRIOR APPLICATION NUMBER: 60/080327
46 PRIOR FILING DATE: 1998-04-01
47 PRIOR APPLICATION NUMBER: 60/080328
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54 PRIOR FILING DATE: 1998-04-08
55 PRIOR APPLICATION NUMBER: 60/081049
56 PRIOR FILING DATE: 1998-04-08
57 PRIOR APPLICATION NUMBER: 60/081071
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59 PRIOR APPLICATION NUMBER: 60/081195
60 PRIOR FILING DATE: 1998-04-08
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62 PRIOR FILING DATE: 1998-04-09
63 PRIOR APPLICATION NUMBER: 60/081229
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69 PRIOR APPLICATION NUMBER: 60/081819
70 PRIOR FILING DATE: 1998-04-15
71 PRIOR APPLICATION NUMBER: 60/081952
72 PRIOR FILING DATE: 1998-04-15
73 PRIOR APPLICATION NUMBER: 60/081838

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3 PRIOR FILING DATE: 1998-04-21
4 PRIOR APPLICATION NUMBER: 60/082569
5 PRIOR FILING DATE: 1998-04-21
6 PRIOR APPLICATION NUMBER: 60/082704
7 PRIOR FILING DATE: 1998-04-22
8 PRIOR APPLICATION NUMBER: 60/082804
9 PRIOR FILING DATE: 1998-04-22
10 PRIOR APPLICATION NUMBER: 60/082700
11 PRIOR FILING DATE: 1998-04-22
12 PRIOR APPLICATION NUMBER: 60/082797
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14 PRIOR APPLICATION NUMBER: 60/082796
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16 PRIOR APPLICATION NUMBER: 60/083336
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18 PRIOR APPLICATION NUMBER: 60/083322
19 PRIOR FILING DATE: 1998-04-28
20 PRIOR APPLICATION NUMBER: 60/083392
21 PRIOR FILING DATE: 1998-04-29
22 PRIOR APPLICATION NUMBER: 60/083495
23 PRIOR FILING DATE: 1998-04-29
24 PRIOR APPLICATION NUMBER: 60/083496
25 PRIOR FILING DATE: 1998-04-29
26 PRIOR APPLICATION NUMBER: 60/083499
27 PRIOR FILING DATE: 1998-04-29
28 PRIOR APPLICATION NUMBER: 60/083545
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31 PRIOR FILING DATE: 1998-04-29
32 PRIOR APPLICATION NUMBER: 60/083558
33 PRIOR FILING DATE: 1998-04-29
34 PRIOR APPLICATION NUMBER: 60/083559
35 PRIOR FILING DATE: 1998-04-29
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43 PRIOR FILING DATE: 1998-05-06
44 PRIOR APPLICATION NUMBER: 60/084441
45 PRIOR FILING DATE: 1998-05-06
46 PRIOR APPLICATION NUMBER: 60/084637
47 PRIOR FILING DATE: 1998-05-07
48 PRIOR APPLICATION NUMBER: 60/084639
49 PRIOR FILING DATE: 1998-05-07
50 PRIOR APPLICATION NUMBER: 60/084640
51 PRIOR FILING DATE: 1998-05-07
52 PRIOR APPLICATION NUMBER: 60/084598
53 PRIOR FILING DATE: 1998-05-07
54 PRIOR APPLICATION NUMBER: 60/084600
55 PRIOR FILING DATE: 1998-05-07
56 PRIOR APPLICATION NUMBER: 60/084627
57 PRIOR FILING DATE: 1998-05-07
58 PRIOR APPLICATION NUMBER: 60/084643
59 PRIOR FILING DATE: 1998-05-07
60 PRIOR APPLICATION NUMBER: 60/085339
61 PRIOR FILING DATE: 1998-05-13
62 PRIOR APPLICATION NUMBER: 60/085338
63 PRIOR FILING DATE: 1998-05-13
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69 PRIOR FILING DATE: 1998-05-15
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71 PRIOR FILING DATE: 1998-05-15
72 PRIOR APPLICATION NUMBER: 60/085579
73 PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
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PRIOR FILING DATE: 1998-05-15
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best local Similarity 100.0%; Pred. No. 1,3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTTIOPKMHNSISNAITGALCLFQGVPAVSGDATPPKAMDNVYVROGESATIRCTID 60
DB 1 MTTIOPKMHNSISNAITGALCLFQGVPAVSGDATPPKAMDNVYVROGESATIRCTID 60

QY 61 NRTYRAMLNSTILYAGNDKWCILDRVYLSNTOTQYSIEIONVDYDEGPTCYOTD 120
DB 61 NRTYRAMLNSTILYAGNDKWCILDRVYLSNTOTQYSIEIONVDYDEGPTCYOTD 120

QY 121 NHPKTSRVALIVQVSPKIVEISSDISINEGNNISLTCTATGRPEPTVWHTISPRAGFV 180
DB 121 NHPKTSRVALIVQVSPKIVEISSDISINEGNNISLTCTATGRPEPTVWHTISPRAGFV 180

QY 181 SEDEYLETIGITREGSDYECSSANDVAPVYRKVYVNPPIISAQGTGYPVQOGCT 240
DB 181 SEDEYLETIGITREGSDYECSSANDVAPVYRKVYVNPPIISAQGTGYPVQOGCT 240

QY 241 LOCEASAVPSAEFQWYKDDKRLIEGKKGVKNRPFLSKLFFVNSEHDGNTCYASNK 300
DB 241 LOCEASAVPSAEFQWYKDDKRLIEGKKGVKNRPFLSKLFFVNSEHDGNTCYASNK 300

QY 301 LGHTNASIMLFQPGAVSEVSGNSTRAGCCWILLPLVYHLLK 344
DB 301 LGHTNASIMLFQPGAVSEVSGNSTRAGCCWILLPLVYHLLK 344

RESULT 9
US-09-978-193A-523
Sequence 523, Application US/09978193A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Ku, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC6
CURRENT APPLICATION NUMBER: US/09/978,193A

CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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; PRIOR APPLICATION NUMBER: 60/085339

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; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
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; PRIOR FILING DATE: 1998-05-15
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; PRIOR FILING DATE: 1998-05-15
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

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Query Match      100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MNTIPKHNHSISWIFTLGALCLFQGVPSGDATFPFAMNVTVRGSESATLRCTID 60
Db 1 MNTIPKHNHSISWIFTLGALCLFQGVPSGDATFPFAMNVTVRGSESATLRCTID 60
QY 61 NNYTVAMLNRSSTLYAGNDKWCIDRVLVLSNTOTGYSTRIQNDVYDEGYTCSYOTD 120
Db 61 NNYTVAMLNRSSTLYAGNDKWCIDRVLVLSNTOTGYSTRIQNDVYDEGYTCSYOTD 120
QY 121 NHPKTSRHLVQVSPKIVESISDINSNGNISLTCTIATGRPEVYTMHISPRAVGFV 180
Db 121 NHPKTSRHLVQVSPKIVESISDINSNGNISLTCTIATGRPEVYTMHISPRAVGFV 180
QY 181 SEDEYLEIOGITRQSGDYCSASNDVAPVRYKYTVNPPYISBAKGTGVPYQOKGT 240
Db 181 SEDEYLEIOGITRQSGDYCSASNDVAPVRYKYTVNPPYISBAKGTGVPYQOKGT 240
QY 241 LOCEASAVPSAEFQWKDKRLIEGKKGVKENRPFSLKLFENVSEHDYQNTCVASNK 300
Db 241 LOCEASAVPSAEFQWKDKRLIEGKKGVKENRPFSLKLFENVSEHDYQNTCVASNK 300
QY 301 LGHTNASIMLFGPAVSEVSNSTSRAGCWMILLPLVHLHLKF 344
Db 301 LGHTNASIMLFGPAVSEVSNSTSRAGCWMILLPLVHLHLKF 344

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RESULT 10

US-09-978-194A-523

GENERAL INFORMATION:

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; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.

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APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC10
CURRENT APPLICATION NUMBER: US/09/978,194A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR APPLICATION NUMBER: 60/083742
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PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
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: PRIOR APPLICATION NUMBER: 60/084639
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: PRIOR FILING DATE: 1998-05-15

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Query Match      100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MKTIQPKMHNISMAITGTAALCEFGVPVSGDAPFPKAMNVTVRGGEATLRCTID 60
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QY 61 NERVAVAMLNKSTLLVAGNDKWCLEDRVLLSNTQTOYSIEIONVDYDEGPTCSVOTD 120
Db 61 NERVAVAMLNKSTLLVAGNDKWCLEDRVLLSNTQTOYSIEIONVDYDEGPTCSVOTD 120
QY 121 NHPKTSRVHLLVOVSPKIVISDISINGNNSISLTCIATGPREFTVTRHISPAVGFV 180
Db 121 NHPKTSRVHLLVOVSPKIVISDISINGNNSISLTCIATGPREFTVTRHISPAVGFV 180
QY 181 SEDEVLEIQTREOSGDYECSSANDVAPVVRKVTVMVPIYISEAGTGVPGOKGT 240
Db 181 SEDEVLEIQTREOSGDYECSSANDVAPVVRKVTVMVPIYISEAGTGVPGOKGT 240
QY 241 LCCESAVPSAEFQWYKDKRLIEGKGVYENRPFSLKLEFNSEHDYGYTCVASNK 300
Db 241 LCCESAVPSAEFQWYKDKRLIEGKGVYENRPFSLKLEFNSEHDYGYTCVASNK 300
QY 301 LGHTNASIMLFGPGAVSEVSNSTRRAGCWMLPLVYHLLKF 344
Db 301 LGHTNASIMLFGPGAVSEVSNSTRRAGCWMLPLVYHLLKF 344

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RESULT 11

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: Sequence 523, Application US/09978295A
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Baker Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan

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: APPLICANT: Ferrara, Napoleon
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Ford, Sherman
: APPLICANT: Geo, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Kljavin, Ivar J.
: APPLICANT: Kuo, Sophia S.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James;
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Shelton, David L.
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2630PIC11
: CURRENT APPLICATION NUMBER: US/09/978,295A
: PRIOR FILING DATE: 2001-10-15
: PRIOR APPLICATION NUMBER: 09/918585
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 60/062250
: PRIOR FILING DATE: 1997-10-17
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: PRIOR FILING DATE: 1998-03-30

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; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 M KTIOPMHNSISWALFTGLAALCFQGVYRSGDATFFPKADNVTYRQGSATLRCTID 60
   |||||
QY 61 NRVVRVAMLRSTILYAGNDKWCIDPRVYLISNTQGYSTIEIONDVYDEBPYCSQYTD 120
   |||||
DB 61 NRVVRVAMLRSTILYAGNDKWCIDPRVYLISNTQGYSTIEIONDVYDEBPYCSQYTD 120
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QY 121 NHPPTSVHILYQVSPKTYEISDSISINEGNNISLNCIATGPREPTVWRHISPKAVGFV 180
   |||||
DB 121 NHPPTSVHILYQVSPKTYEISDSISINEGNNISLNCIATGPREPTVWRHISPKAVGFV 180
   |||||
QY 181 SEDEYELIQITREQSGDEYECASNDVAAPVRRVYTVVNPYPYISEAKGTGVPGQGT 240
   |||||
DB 181 SEDEYELIQITREQSGDEYECASNDVAAPVRRVYTVVNPYPYISEAKGTGVPGQGT 240
   |||||
QY 241 LQCRASVPAEFOYTKDKRLIEBKGKGVYENKPFSLKLIFFNNSEHDYGNITCVASNK 300
   |||||
DB 241 LQCRASVPAEFOYTKDKRLIEBKGKGVYENKPFSLKLIFFNNSEHDYGNITCVASNK 300
   |||||
QY 301 LGHTNASIMLFGGAVSEVSNQTSRRAGCVMLLPFLVTLHLKLF 344
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DB 301 LGHTNASIMLPGAVSEVNGTSRRAGCWILLPLVHLLKF 344

RESULT 12

US-09-978-298A-523

Sequence 523, Application US/09978298A

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Kijavlin, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James:

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2630PIC2

CURRENT APPLICATION NUMBER: US/09/978, 298A

CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: 09/918585

PRIOR FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/064249

PRIOR FILING DATE: 1997-11-03

PRIOR APPLICATION NUMBER: 60/065311

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PRIOR APPLICATION NUMBER: 60/066364

PRIOR FILING DATE: 1997-11-21

PRIOR APPLICATION NUMBER: 60/07450

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; PRIOR FILING DATE: 1998-05-15

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Query Match          100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MKTIOPMHNSISMAITGALALCFQGVFVRSGATPFKAMDNTVYRQGESATLCTID 60
DB 1 MKTIOPMHNSISMAITGALALCFQGVFVRSGATPFKAMDNTVYRQGESATLCTID 60
QY 61 NRYRYRAMLRSTIIYAGNDKWCIDPRVYLLSTWQYYSIEIYQNDVYIDEGPTTCVQTD 120
DB 61 NRYRYRAMLRSTIIYAGNDKWCIDPRVYLLSTWQYYSIEIYQNDVYIDEGPTTCVQTD 120

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QY 121 NHPKTSVHLIVQVSPKIVEISDISINEGNISLICIATGPREPTVWRHISPKAVGFY 180
DB 121 NHPKTSVHLIVQVSPKIVEISDISINEGNISLICIATGPREPTVWRHISPKAVGFY 180
QY 181 SEDEYLEIQITREDSGDIYECSSANDYAAPVYRVYVYVPPYISEAKGTGVPVGQGT 240
DB 181 SEDEYLEIQITREDSGDIYECSSANDYAAPVYRVYVYVPPYISEAKGTGVPVGQGT 240
QY 241 LQCSASVPSAEFQWTKDKRLIBGKGVYENKPELSKLIFFNVEHDYGNITCVASNK 300
DB 241 LQCSASVPSAEFQWTKDKRLIBGKGVYENKPELSKLIFFNVEHDYGNITCVASNK 300
QY 301 LGHTNASIMLFGPAVSEVSNCTSRBAGCWLLPLVTHLLKF 344
DB 301 LGHTNASIMLFGPAVSEVSNCTSRBAGCWLLPLVTHLLKF 344

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; Sequence 523, Application US/09978299A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
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; APPLICANT: Filvaroff, Ellen
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; APPLICANT: Gao, Wei-Qiang
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; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
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; APPLICANT: Gurney, Austin L.
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; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC3
; CURRENT APPLICATION NUMBER: US/09/978,299A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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; PRIOR FILING DATE: 1997-10-17
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21	PRIOR APPLICATION NUMBER: 60/079653
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24	PRIOR FILING DATE: 1998-03-30
25	PRIOR APPLICATION NUMBER: 60/079923
26	PRIOR FILING DATE: 1998-03-30
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28	PRIOR FILING DATE: 1998-03-31
29	PRIOR APPLICATION NUMBER: 60/080107
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52	PRIOR FILING DATE: 1998-04-08
53	PRIOR APPLICATION NUMBER: 60/081203
54	PRIOR FILING DATE: 1998-04-09
55	PRIOR APPLICATION NUMBER: 60/081222
56	PRIOR FILING DATE: 1998-04-09
57	PRIOR APPLICATION NUMBER: 60/081955
58	PRIOR FILING DATE: 1998-04-15
59	PRIOR APPLICATION NUMBER: 60/081817
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61	PRIOR APPLICATION NUMBER: 60/081819
62	PRIOR FILING DATE: 1998-04-15
63	PRIOR APPLICATION NUMBER: 60/081955
64	PRIOR FILING DATE: 1998-04-15
65	PRIOR APPLICATION NUMBER: 60/081833
66	PRIOR FILING DATE: 1998-04-15
67	PRIOR APPLICATION NUMBER: 60/082566
68	PRIOR FILING DATE: 1998-04-21
69	PRIOR APPLICATION NUMBER: 60/082566
70	PRIOR FILING DATE: 1998-04-21
71	PRIOR APPLICATION NUMBER: 60/082704
72	PRIOR FILING DATE: 1998-04-22
73	PRIOR APPLICATION NUMBER: 60/082804

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4	PRIOR APPLICATION NUMBER: 60/0882797
5	PRIOR FILING DATE: 1998-04-22
6	PRIOR APPLICATION NUMBER: 60/0882796
7	PRIOR FILING DATE: 1998-04-23
8	PRIOR APPLICATION NUMBER: 60/0883366
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10	PRIOR APPLICATION NUMBER: 60/0833222
11	PRIOR FILING DATE: 1998-04-28
12	PRIOR APPLICATION NUMBER: 60/0833922
13	PRIOR FILING DATE: 1998-04-29
14	PRIOR APPLICATION NUMBER: 60/0834955
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16	PRIOR APPLICATION NUMBER: 60/0834966
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18	PRIOR APPLICATION NUMBER: 60/0834999
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22	PRIOR APPLICATION NUMBER: 60/0835500
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24	PRIOR APPLICATION NUMBER: 60/0835500
25	PRIOR FILING DATE: 1998-04-29
26	PRIOR APPLICATION NUMBER: 60/0837422
27	PRIOR FILING DATE: 1998-04-30
28	PRIOR APPLICATION NUMBER: 60/0843666
29	PRIOR FILING DATE: 1998-05-05
30	PRIOR APPLICATION NUMBER: 60/0844144
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45	PRIOR FILING DATE: 1998-05-07
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54	PRIOR APPLICATION NUMBER: 60/0855828
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56	PRIOR APPLICATION NUMBER: 60/0855799
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60	PRIOR APPLICATION NUMBER: 60/0856888
61	PRIOR FILING DATE: 1998-05-15
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64	PRIOR APPLICATION NUMBER: 60/0857044
65	PRIOR FILING DATE: 1998-05-15
66	PRIOR APPLICATION NUMBER: 60/0856977
67	PRIOR FILING DATE: 1998-05-15
68	PRIOR APPLICATION NUMBER: 60/0856977
69	PRIOR FILING DATE: 1998-05-15
70	PRIOR APPLICATION NUMBER: 60/0856977

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKTIQPMNHSISMAIFGTGLAALCLFQGVPRSGDAFPKADNVTYRQGSATLRCTID 60
QY 61 NRTYRAMLNRSITIIYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSQYTD 120
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QY 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGPEPTVMRHISPKAVGFV 180
DB 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGPEPTVMRHISPKAVGFV 180
QY 181 SEDEYLEIQGITREGSGDYECASNDVAAPVRRVYVYNNPPYISEAKGTGVVGQKGT 240
DB 181 SEDEYLEIQGITREGSGDYECASNDVAAPVRRVYVYNNPPYISEAKGTGVVGQKGT 240
QY 241 LQCEASAVPSAEFQWKDKRLIEGKGVYENRPFLSKLIFPNVSEHDYGNTCVASKK 300
DB 241 LQCEASAVPSAEFQWKDKRLIEGKGVYENRPFLSKLIFPNVSEHDYGNTCVASKK 300
QY 301 LGHTNASIMLFGGAVSEVSNQTSRRAGCYWLLPLLYLHLILKF 344
DB 301 LGHTNASIMLFGGAVSEVSNQTSRRAGCYWLLPLLYLHLILKF 344

RESULT 14
US-09-978-585-523
; Sequence 523, Application US/09978585
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC15
; CURRENT APPLICATION NUMBER: US/09/978,585
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 523
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-585-523

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1,3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKTIQPMNHSISMAIFGTGLAALCLFQGVPRSGDAFPKADNVTYRQGSATLRCTID 60
QY 61 NRTYRAMLNRSITIIYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSQYTD 120
DB 61 NRTYRAMLNRSITIIYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSQYTD 120
QY 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGPEPTVMRHISPKAVGFV 180
DB 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGPEPTVMRHISPKAVGFV 180
QY 181 SEDEYLEIQGITREGSGDYECASNDVAAPVRRVYVYNNPPYISEAKGTGVVGQKGT 240
DB 181 SEDEYLEIQGITREGSGDYECASNDVAAPVRRVYVYNNPPYISEAKGTGVVGQKGT 240
QY 241 LQCEASAVPSAEFQWKDKRLIEGKGVYENRPFLSKLIFPNVSEHDYGNTCVASKK 300
DB 241 LQCEASAVPSAEFQWKDKRLIEGKGVYENRPFLSKLIFPNVSEHDYGNTCVASKK 300
QY 301 LGHTNASIMLFGGAVSEVSNQTSRRAGCYWLLPLLYLHLILKF 344
DB 301 LGHTNASIMLFGGAVSEVSNQTSRRAGCYWLLPLLYLHLILKF 344

RESULT 15
US-09-978-585A-523
; Sequence 523, Application US/09978585A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 523
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-585A-523

US-09-978-585A-523

Query Match 100.0%; Score 1806; DB 23; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.3e-163;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MKTIQPKMHNISMAIFETGLAALCLFQGVPRVSGDATPPKAMDNVTVROGESATLRCTID 60
QY 61 NRYTRVAMLNRESTLLVAGNDKWCILDPRVLLSNTOTOYSIEIQNVVDYDEGPTGVSQTD 120
    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 61 NRYTRVAMLNRESTLLVAGNDKWCILDPRVLLSNTOTOYSIEIQNVVDYDEGPTGVSQTD 120
QY 121 NHPKTSRVHLIVQVSPKIVEISDSISINEGNNISLTCIATGRPEPTVWRHISPKAVGFV 180
    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 121 NHPKTSRVHLIVQVSPKIVEISDSISINEGNNISLTCIATGRPEPTVWRHISPKAVGFV 180
QY 181 SEDEYLEIIGITREOSGDYECASANDVAAPVVRVKVTVNTPPYISEAKGTGVPVGQKGT 240
    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 181 SEDEYLEIIGITREOSGDYECASANDVAAPVVRVKVTVNTPPYISEAKGTGVPVGQKGT 240
QY 241 LQCEASAVPSAFQWYKDDKRLTEGKGYKVENRPFLSKLTFENVSEHDYGNITCVASNK 300
    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 241 LQCEASAVPSAFQWYKDDKRLTEGKGYKVENRPFLSKLTFENVSEHDYGNITCVASNK 300
QY 301 LGHTNASIMLFGPGAVSEVSNGTSRRAGCWMLPLLVLAHLCLKF 344
    ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 301 LGHTNASIMLFGPGAVSEVSNGTSRRAGCWMLPLLVLAHLCLKF 344
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Search completed: July 12, 2002, 00:41:09
Job time: 912 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 12, 2002, 00:33:02 ; Search time 73.58 seconds
(without alignments)
485.542 Million cell updates/sec

Title: US-09-700-397-3

Perfect score: 1806

Sequence: 1 MKTIQPKMNSISMAIFRGL.....RRAGCVLLPLVLLILKLF 344

Scoring table: BLOSUM62

Searched: 323636 segs, 103855142 residues

Total number of hits satisfying chosen parameters: 323636

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New:*
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3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
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Pied. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1806	100.0	344	US-09-978-403A-523	Sequence 523, App
2	1806	100.0	344	US-09-978-544A-523	Sequence 523, App
3	1806	100.0	344	US-09-978-681A-523	Sequence 523, App
4	1806	100.0	344	US-09-978-757A-523	Sequence 523, App
5	1806	100.0	344	US-09-978-564A-523	Sequence 523, App
6	1806	100.0	344	US-09-999-831A-523	Sequence 523, App
7	1806	100.0	344	US-09-999-829A-523	Sequence 523, App
8	1806	100.0	344	US-09-978-375A-523	Sequence 523, App
9	1806	100.0	344	US-09-978-423A-523	Sequence 523, App
10	1806	100.0	344	US-10-013-921A-523	Sequence 523, App
11	1806	100.0	344	US-10-013-929A-523	Sequence 523, App
12	1806	100.0	344	US-10-013-918A-523	Sequence 523, App
13	1806	100.0	344	US-10-017-082A-523	Sequence 523, App
14	1806	100.0	344	US-10-119-480-126	Sequence 126, App
15	1806	100.0	344	US-10-121-049-376	Sequence 376, App
16	1806	100.0	344	US-10-121-050-376	Sequence 376, App
17	1806	100.0	344	US-10-121-053-376	Sequence 376, App
18	1806	100.0	344	US-10-121-043-376	Sequence 376, App
19	1806	100.0	344	US-10-121-044-376	Sequence 376, App
20	1806	100.0	344	US-10-121-047-376	Sequence 376, App
21	1806	100.0	344	US-10-121-054-376	Sequence 376, App
22	1806	100.0	344	US-10-121-056-376	Sequence 376, App
23	1806	100.0	344	US-10-121-057-376	Sequence 376, App
24	1806	100.0	344	US-10-121-058-376	Sequence 376, App
25	1806	100.0	344	US-10-121-060-376	Sequence 376, App
26	1806	100.0	344	US-10-121-065-376	Sequence 376, App

27	1806	100.0	344	US-10-123-108-376	Sequence 376, App
28	1806	100.0	344	US-10-123-154-376	Sequence 376, App
29	1806	100.0	344	US-10-123-155-376	Sequence 376, App
30	1806	100.0	344	US-10-123-157-376	Sequence 376, App
31	1806	100.0	344	US-10-123-212-376	Sequence 376, App
32	1806	100.0	344	US-10-123-213-376	Sequence 376, App
33	1806	100.0	344	US-10-123-109-376	Sequence 376, App
34	1806	100.0	344	US-10-121-041-376	Sequence 376, App
35	1806	100.0	344	US-10-121-045-376	Sequence 376, App
36	1806	100.0	344	US-10-121-046-376	Sequence 376, App
37	1806	100.0	344	US-10-121-051-376	Sequence 376, App
38	1806	100.0	344	US-10-121-040-376	Sequence 376, App
39	1806	100.0	344	US-10-121-048-376	Sequence 376, App
40	1806	100.0	344	US-10-121-052-376	Sequence 376, App
41	1806	100.0	344	US-10-121-061-376	Sequence 376, App
42	1806	100.0	344	US-10-121-042-376	Sequence 376, App
43	1806	100.0	344	US-10-121-055-376	Sequence 376, App
44	1806	100.0	344	US-10-121-059-376	Sequence 376, App
45	1806	100.0	344	US-10-124-822-376	Sequence 376, App

ALIGNMENTS

RESULT 1
US-09-978-403A-523
; Sequence 523, Application US/09978403A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivarov, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlisen, Mary E.
; APPLICANT: Goddard, Audrey J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Williams, P. Mickey
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630pic17
; CURRENT APPLICATION NUMBER: US/09/978,403A
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632

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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 2.2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKTIQPKMNSISMAIFGTALCLFQGVPRSGDATPFKANDVTVRQGESATLRCTID 60
QY 61 NRTVRVAMLRSTILYAGNDKWCIDPRVYLLSTQTYQYIEIQNDVYDESPYCSYQD 120
DB 61 NRTVRVAMLRSTILYAGNDKWCIDPRVYLLSTQTYQYIEIQNDVYDESPYCSYQD 120
QY 121 NHPTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVWRHISKAVGFV 180
DB 121 NHPTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVWRHISKAVGFV 180
QY 181 SEDEYLEIQGITREQSGDYECSSASNDVAAAPVVRVYTVNYPYIIEAKGTGVPGQKGT 240
DB 181 SEDEYLEIQGITREQSGDYECSSASNDVAAAPVVRVYTVNYPYIIEAKGTGVPGQKGT 240
QY 241 LQCSAVSPSAEFQWYKDKDKRLIEGKGVVEKRPPLSKLIFPNSEHDYGNVCVASK 300
DB 241 LQCSAVSPSAEFQWYKDKDKRLIEGKGVVEKRPPLSKLIFPNSEHDYGNVCVASK 300
QY 301 LGHTNASIMLFGGAVSEVSNCTSRACVWLLPLLYLHLLEKF 344
DB 301 LGHTNASIMLFGGAVSEVSNCTSRACVWLLPLLYLHLLEKF 344

RESULT 2
US-09-978-544A-523

;; Sequence 523, Application US/09978544A
;; GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Baker Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Batton, Dan
;; APPLICANT: Ferrara, Napoleon
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerltzen, Mary E.
;; APPLICANT: Goddard, Audrey J.
;; APPLICANT: Godwaldi, J. Christopher
;; APPLICANT: Guiney, Austin L.
;; APPLICANT: Hillan, Kenneth J.
;; APPLICANT: Kijavlin, Ivar J.
;; APPLICANT: Kuo, Sophia S.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James;
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Shelton, David L.
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumus, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C13
;; CURRENT APPLICATION NUMBER: US/09/978,544A
;; CURRENT FILING DATE: 2002-03-19

;; PRIOR APPLICATION NUMBER: 09/918585
;; PRIOR FILING DATE: 2001-07-30
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/064249
;; PRIOR FILING DATE: 1997-11-03
;; PRIOR APPLICATION NUMBER: 60/065311
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: PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 2.2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPKMNSISNAIFTLGLALCLFQGVPRSGDATEPKAMDNVTVROGESATLKTID 60
D 1 MKTIQPKMNSISNAIFTLGLALCLFQGVPRSGATPKAMDNVTVROGESATLKTID 60
QY 61 NRTYRAMLNSTILYAGNDKWLDPVVLSNTOTQYSIFQWVDYDEGPTQSVOTD 120
D 61 NRTYRAMLNSTILYAGNDKWLDPVVLSNTOTQYSIFQWVDYDEGPTQSVOTD 120
QY 121 NHRKTSRHLVQVSPKIVEISSDISINGNNISLTCIATGRPEPTWMTHTSPRAVGFV 180
D 121 NHRKTSRHLVQVSPKIVEISSDISINGNNISLTCIATGRPEPTWMTHTSPRAVGFV 180
QY 181 SEDEVLEIQTREQSGDYECSSANDVAPVVRKYVTVPYISANKGTGYPVGOKGT 240
D 181 SEDEVLEIQTREQSGDYECSSANDVAPVVRKYVTVPYISANKGTGYPVGOKGT 240
QY 241 LQCEASAVPSAEFQWYKDKRLIEGKKGVKNRPFSLKLFVNSHDYGNVTCYASNK 300
D 241 LQCEASAVPSAEFQWYKDKRLIEGKKGVKNRPFSLKLFVNSHDYGNVTCYASNK 300
QY 301 LGHTNASIMLFGPGAVSEVNSGTSRRAGCWWLLPLVTHLLKF 344
D 301 LGHTNASIMLFGPGAVSEVNSGTSRRAGCWWLLPLVTHLLKF 344

RESULT 3
US-09-681A-523
: Sequence 523, Application US/09978681A
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Baker Kevin P.
: APPLICANT: Bolstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleon
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Kljavin, Ivar J.
: APPLICANT: Kuo, Sophia S.
: APPLICANT: Napier, Mary A.
```

APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC18
CURRENT APPLICATION NUMBER: US/09/978,681A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
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PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred.No. 2,2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPKMHNISMAIFGTGALCLFQGVPRSGDATPPKAMDNVTVRQGESATLKTCTD 60
DB 1 MKTIQPKMHNISMAIFGTGALCLFQGVPRSGDATPPKAMDNVTVRQGESATLKTCTD 60
QY 61 NRTRYAMLNRSITLYAGNCKLDRPVVLLSNPTQYSIEIQNVDDYDEGPTCSVQTD 120
DB 61 NRTRYAMLNRSITLYAGNCKLDRPVVLLSNPTQYSIEIQNVDDYDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISITCIATGRPEPTVTHHISPKAYGV 180
DB 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISITCIATGRPEPTVTHHISPKAYGV 180
QY 181 SEPEYLETIGITREGSGDYECSSNDYAAPVVRKVTVNPPTISAKGTGVPGQKGT 240
DB 181 SEPEYLETIGITREGSGDYECSSNDYAAPVVRKVTVNPPTISAKGTGVPGQKGT 240
QY 241 LOCEASAVPSAEFQWYKDDKRLIEGKGVKNRPEFSKLIFFNVSHDYGNTCVASKK 300
DB 241 LOCEASAVPSAEFQWYKDDKRLIEGKGVKNRPEFSKLIFFNVSHDYGNTCVASKK 300
QY 301 LGHTNASIMLFGPAGVSEVNGSTRRAGCWMLLPLVLVHLHLKP 344
DB 301 LGHTNASIMLFGPAGVSEVNGSTRRAGCWMLLPLVLVHLHLKP 344

RESULT 4
US-09-757A-523
Sequence 523, Application US/09978757A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen
APPLICANT: Fond, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paonli, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC26
CURRENT APPLICATION NUMBER: US/09/978,757A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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;; PRIOR FILING DATE: 1998-05-07
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;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
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;; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPRMHNSTISNAFTGIALCLFQGVYVRSGDATFPKANDVTVRQGSATLRCTD 60
DB 1 MKTIQPRMHNSTISNAFTGIALCLFQGVYVRSGDATFPKANDVTVRQGSATLRCTD 60
QY 61 NRVTRVAMLNRSITIIYAGNDKMCCLDPYVLLSTNTQYSEIETQNDVYDEGPYCSQYD 120
DB 61 NRVTRVAMLNRSITIIYAGNDKMCCLDPYVLLSTNTQYSEIETQNDVYDEGPYCSQYD 120
QY 121 NHEPTSRVHLIVQVSEFKIVEISSDISINEGNNTSLCLATGPREPTVWRHISPKAVGY 180
DB 121 NHEPTSRVHLIVQVSEFKIVEISSDISINEGNNTSLCLATGPREPTVWRHISPKAVGY 180
QY 181 SEDEYIEFIGITREOSGDECSASNDVAAPVVRVAVVNPYPYISAKGTGVPVGQGT 240
DB 181 SEDEYIEFIGITREOSGDECSASNDVAAPVVRVAVVNPYPYISAKGTGVPVGQGT 240
QY 241 LOCASAVPSAEFQWYKDDKRLIEGKGVYVEMRPLSLIFPNYSEEDVGNVTCVASKN 300
DB 241 LOCASAVPSAEFQWYKDDKRLIEGKGVYVEMRPLSLIFPNYSEEDVGNVTCVASKN 300
QY 301 LGHTNASIMLFGPAVSEVSNSTSRRAGCYWLLPLVLHLILKE 344
DB 301 LGHTNASIMLFGPAVSEVSNSTSRRAGCYWLLPLVLHLILKE 344

Db 301 LGHTNASIMLFGPGAVSEVSGTSSRACGWLPLLVHLILK 344

RESULT 5
US-09-978-564A-523

Sequence 523, Application US/09978564A

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C25
CURRENT APPLICATION NUMBER: US/09/978, 564A
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
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PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
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; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match      100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 2.2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      121  NHPTSRVHLIVQVSPKIVEISSDISINEGNMISLTCIANGREPREVTNRHISPAVGFF 180
QY      181  SEDVTEIQTREDSQTECSASNDVAAPVRRVATVNYPPYISEKKGTVGVGKGT 240
Db      181  SEDVTEIQTREDSQTECSASNDVAAPVRRVATVNYPPYISEKKGTVGVGKGT 240
QY      241  LQCSASVPSAEFQWKDKDKRLIEGKGVKVERKPLSLIFNYSNDYGNVCVANSK 300
Db      241  LQCSASVPSAEFQWKDKDKRLIEGKGVKVERKPLSLIFNYSNDYGNVCVANSK 300
QY      301  LGHTNASIMLFGPGAVSEVSNCTSRAGCVMLPLLVHLHLKF 344
Db      301  LGHTNASIMLFGPGAVSEVSNCTSRAGCVMLPLLVHLHLKF 344

RESULT 6
US-09-999-831A-523
; Sequence 523, Application US/09999831A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Hong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gunney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C68
; CURRENT APPLICATION NUMBER: US/09/999,831A
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 523
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-999-831A-523

Query Match      100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 2.2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY	Db	QY	Db
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1 KKTIOPKMHSISMALFETGLALCTFCGVYVRSGATAPPKMADVYVROGESATIRCTD 60	1 KKTIOPKMHSISMALFETGLALCTFCGVYVRSGATAPPKMADVYVROGESATIRCTD 60	61 NRYIVRYALNRSITLLIAANDKWCJCDPRVYLLSNLTQYSLIELQNVADYVYDGPYTSVOTD 120	61 NRYIVRYALNRSITLLIAANDKWCJCDPRVYLLSNLTQYSLIELQNVADYVYDGPYTSVOTD 120

QY 1 KKTQPKMHSINAFITGLALCLPGGVYKSGATETPKMADNTVYRGESATLRCTID 60

Db 1 KKTQPKMHSINAFITGLALCLPGGVYKSGATETPKMADNTVYRGESATLRCTID 60

QY 61 NRTVAVMLRSTIIYAANDKWLCDPRVVLISMTQYQSIETQAVDYDEGPTTSVTD 120

Db 61 NRYTRVAMLNKSTIIYAGNDKWCIDPRVYLSTOTOTYSIELQNVNDYDSPTGCVQND 120
Qy 121 NHPKTSRVLIVQVSEKIVEISDSISINEGNNTSLTCIATGRPEFTVWRHISPKAVGY 180
Db 121 NHPKTSRVLIVQVSEKIVEISDSISINEGNNTSLTCIATGRPEFTVWRHISPKAVGY 180
Qy 181 SEDYLEIQTIREQSGDECSASNDYAAVYRVVYVYVNPPTISEAKGTGVPVQKGT 240
Db 181 SEDYLEIQTIREQSGDECSASNDYAAVYRVVYVYVNPPTISEAKGTGVPVQKGT 240
Qy 241 LOCEASVPSAEFOWYKDDKRLIEGKGVENRPLSKLIFENVSEHDYGNTCYASNK 300
Db 241 LOCEASVPSAEFOWYKDDKRLIEGKGVENRPLSKLIFENVSEHDYGNTCYASNK 300
Qy 301 LGHTNASIMLFGGAVSEVSNGTERRAGCYWLLPLVHLILKE 344
Db 301 LGHTNASIMLFGGAVSEVSNGTERRAGCYWLLPLVHLILKE 344

RESULT 9
US-09-978-423a-523
Sequence 523, Application US/09978423a
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geider, Hanspeter
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C21
CURRENT APPLICATION NUMBER: US/09/978,423a
CURRENT FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR APPLICATION NUMBER: 60/077791
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PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
Query Match 100.0%; Score 1806; DB 5; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MKTIQKMNSTISMAIFGTGLAALCLFQGVPSGATPKAMDVNVRQGESATLCTID 60
DB 1 MKTIQKMNSTISMAIFGTGLAALCLFQGVPSGATPKAMDVNVRQGESATLCTID 60
OY 61 NRYTRVAMLNSTILYAAGNDKWCIDPRVLLSNTQTOYSIEIOWVDYDGGPYTCSVQTD 120
DB 61 NRYTRVAMLNSTILYAAGNDKWCIDPRVLLSNTQTOYSIEIOWVDYDGGPYTCSVQTD 120
OY 121 NHRKTRVHLIVQVSPKIVEISSDITSNBSNNISLTCTATGPREPTVTHHISPKAVGV 180
DB 121 NHRKTRVHLIVQVSPKIVEISSDITSNBSNNISLTCTATGPREPTVTHHISPKAVGV 180
OY 181 SEDEYIEIGITREOSGDECSASNDYAAPVYRKYVNYNPTISAAGTGPVGOKGT 240
DB 181 SEDEYIEIGITREOSGDECSASNDYAAPVYRKYVNYNPTISAAGTGPVGOKGT 240
OY 241 LQCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLIFPNVSEHDYGNTCVANSK 300
DB 241 LQCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLIFPNVSEHDYGNTCVANSK 300
OY 301 LGHTNASIMLFGGAVSEVSNSTRRAGCWLLPLVLHLLKF 344
DB 301 LGHTNASIMLFGGAVSEVSNSTRRAGCWLLPLVLHLLKF 344
RESULT 10
US-10-013-921A-523
Sequence 523, Application US/10013921A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC84
CURRENT APPLICATION NUMBER: US/10/013,921A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249

[illegible]

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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15
```

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Query Match 100.0%; Score 1806; DB 6; Length 344;
Best Local Similarity 100.0%; Pred. No. 2.2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 MKTIOPKMNSISMAIFGTGLAALCLFGVPRVSGDAPFKAMDVTVRQGESATLRCITD 60
DB 1 MKTIOPKMNSISMAIFGTGLAALCLFGVPRVSGDAPFKAMDVTVRQGESATLRCITD 60
QY 61 NRTYRAVLNRSITLYAGNDKWCCLDPRVYVLSNTOTQTSIEQVNDVYDEGPTGCVQTD 120
DB 61 NRTYRAVLNRSITLYAGNDKWCCLDPRVYVLSNTOTQTSIEQVNDVYDEGPTGCVQTD 120
QY 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGRPPTVTHHISPKAVGFV 180
DB 121 NHPKTSRVHLIYQVSPKIVEISSDISINEGNNISLTCIATGRPPTVTHHISPKAVGFV 180
QY 181 SEDEYLEIGITREQSGDECSASNDVAPVYRVKVTYVNPYISANKTGVPVQOKT 240
DB 181 SEDEYLEIGITREQSGDECSASNDVAPVYRVKVTYVNPYISANKTGVPVQOKT 240
QY 241 LQCEASAVSAPFQWKDKRLLEGKKGVKNRPFLSKLFFVWSHDYGNTCVASMK 300
DB 241 LQCEASAVSAPFQWKDKRLLEGKKGVKNRPFLSKLFFVWSHDYGNTCVASMK 300
QY 301 LGHTNASIMLFGPAVSEVSNSTRAGCWMILPLLIVHLHLKF 344
DB 301 LGHTNASIMLFGPAVSEVSNSTRAGCWMILPLLIVHLHLKF 344
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RESULT 11
US-10-013-929A-523
; Sequence 523, Application us/10013929A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Geiber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
```

```
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C89
;; CURRENT APPLICATION NUMBER: us/10/013,929A
;; CURRENT FILING DATE: 2002-03-19
;; PRIOR APPLICATION NUMBER: 09/918585
;; PRIOR FILING DATE: 2001-07-30
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/064249
;; PRIOR FILING DATE: 1997-11-03
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066364
;; PRIOR FILING DATE: 1997-11-21
;; PRIOR APPLICATION NUMBER: 60/077450
;; PRIOR FILING DATE: 1998-03-10
;; PRIOR APPLICATION NUMBER: 60/077632
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077641
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077649
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077791
;; PRIOR FILING DATE: 1998-03-12
;; PRIOR APPLICATION NUMBER: 60/078004
;; PRIOR FILING DATE: 1998-03-13
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;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/078936
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/078910
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/078939
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;; PRIOR APPLICATION NUMBER: 60/079294
;; PRIOR FILING DATE: 1998-03-25
;; PRIOR APPLICATION NUMBER: 60/079656
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;; PRIOR FILING DATE: 1998-03-31
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;; PRIOR FILING DATE: 1998-03-31
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;; PRIOR APPLICATION NUMBER: 60/080333
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/080334
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: 60/081070
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; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081071
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; PRIOR FILING DATE: 1998-04-15
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; PRIOR APPLICATION NUMBER: 60/082700
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; PRIOR FILING DATE: 1998-04-29
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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083499
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083545
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083554
; PRIOR FILING DATE: 1998-04-29
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; PRIOR APPLICATION NUMBER: 60/084640
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; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07

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; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
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; PRIOR FILING DATE: 1998-05-07
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; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
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; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

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Query Match 100.0%; Score 1806; DB 6; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 MKTTPMHNISWALFTGLALCLFQGVPRSGDATFPKAMDNTVYQGSATLRCTID 60
DB 1 MKTTPMHNISWALFTGLALCLFQGVPRSGDATFPKAMDNTVYQGSATLRCTID 60
QY 61 NRVTVMLNRSTLTYAGNDKWCIDPRVYLSTNTOYSTIEIONVDYDEBPYCSQTD 120
DB 61 NRVTVMLNRSTLTYAGNDKWCIDPRVYLSTNTOYSTIEIONVDYDEBPYCSQTD 120
QY 121 NHPRTSVHLIYOVSEPKIVEISDSISINEGNISLTCIATGPREPTVWRHISRAVGFV 180
DB 121 NHPRTSVHLIYOVSEPKIVEISDSISINEGNISLTCIATGPREPTVWRHISRAVGFV 180
QY 181 SEDVYLIOGITEQSGDYECASNDVAAPVYRVKVTYVNPYPISEAKGCVYVGKGT 240
DB 181 SEDVYLIOGITEQSGDYECASNDVAAPVYRVKVTYVNPYPISEAKGCVYVGKGT 240
QY 241 LQCEASVPAEPFQWKDKDRILEGKGVKENRPFSLKIFPNVSEHDYGNVCASNK 300
DB 241 LQCEASVPAEPFQWKDKDRILEGKGVKENRPFSLKIFPNVSEHDYGNVCASNK 300
QY 301 LGHTNASIMLFGPAVSEVSNCTSRAGCWLLELLVHLHLKF 344
DB 301 LGHTNASIMLFGPAVSEVSNCTSRAGCWLLELLVHLHLKF 344

```

```

RESULT 12
US-10-013-918A-523
; Sequence 523, Application US/10013918A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Rong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.

```

APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gunney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P263091C77
CURRENT APPLICATION NUMBER: US/10/013,918A
CURRENT FILING DATE: 2002-03-25
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/07450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/07632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/07641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/07649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/07791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/07886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-03-20
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PRIOR APPLICATION NUMBER: 60/081071
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PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
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PRIOR FILING DATE: 1998-04-22
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PRIOR FILING DATE: 1998-04-22
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PRIOR APPLICATION NUMBER: 60/083336
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PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366

Query Match	100.0%;	Score 1806;	DB 6;	Length 344;
Best Local Similarity	100.0%;	Pred. No. 2.2e-113;		
Matches 344;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0
Db	1	MKTIOPKMHNISMALEFTGLAALCLFQGVPPVPSDADFPPKAMDNTVROGESATLRCTID	60	
Db	1	MKTIOPKMHNISMALEFTGLAALCLFQGVPPVPSDADFPPKAMDNTVROGESATLRCTID	60	
Qy	61	NKVTVAALNSTLTVAGNDKICDIPRVLLSTNTQGYSTLEIONDVYDEGYTCSVQTD	120	
Db	61	NKVTVAALNSTLTVAGNDKICDIPRVLLSTNTQGYSTLEIONDVYDEGYTCSVQTD	120	
Qy	121	NHPRKSRVHLIVQVSPKRIVEISSDISINEGNNISLTCIATGREPTVTRHLSPKAGFV	180	
Db	121	NHPRKSRVHLIVQVSPKRIVEISSDISINEGNNISLTCIATGREPTVTRHLSPKAGFV	180	
Qy	181	SEDEYLELQGITTRQOSDIEBCASANDVAAPVRRYKATVVPYPISEAKGTGVPYGOKT	240	
Db	181	SEDEYLELQGITTRQOSDIEBCASANDVAAPVRRYKATVVPYPISEAKGTGVPYGOKT	240	
Qy	241	LCCEKSAVPASEFPQWKDKDKRLIEGKKGAVKENRPFSTKLIIPNVSEHDYGYTCVANSK	300	
Db	241	LCCEKSAVPASEFPQWKDKDKRLIEGKKGAVKENRPFSTKLIIPNVSEHDYGYTCVANSK	300	
Qy	301	LGHTNASIMLFGQAVSEVSNGTSRRACVWLLELVHLILKF	344	
Db	301	LGHTNASIMLFGQAVSEVSNGTSRRACVWLLELVHLILKF	344	

```

1 Sequence 523, Application US/10017082A
2 GENERAL INFORMATION:
3 APPLICANT: Ashkenazi, Avi
4 APPLICANT: Baker Kevin P.
5 APPLICANT: Botstein, David
6 APPLICANT: Deenoyers, Luc
7 APPLICANT: Eaton, Dan
8 APPLICANT: Ferrara, Napoleon
9 APPLICANT: Filvaroff, Ellen
10 APPLICANT: Fong, Sherman
11 APPLICANT: Gao, Wei-Qiang
12 APPLICANT: Gerber, Hanspeter
13 APPLICANT: Gertlisen, Mary E.
14 APPLICANT: Goddard, Audrey
15 APPLICANT: Godowski, Paul J.
16 APPLICANT: Grimaldi, J. Christopher
17 APPLICANT: Gurney, Austin L.
18 APPLICANT: Hillan, Kenneth J.
19 APPLICANT: Kijavlin, Iyar J.
20 APPLICANT: Kuo, Sophia S.
21 APPLICANT: Napier, Mary A.
22 APPLICANT: Pan, James;
23 APPLICANT: Paoni, Nicholas F.
24 APPLICANT: Roy, Margaret Ann
25 APPLICANT: Shelton, David L.
26 APPLICANT: Stewart, Timothy A.
27 APPLICANT: Tumas, Daniel
28 APPLICANT: Williams, P. Mickey
29 APPLICANT: Wood, William I.
30 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
31 FILE REFERENCE: P2630P1C71
32 CURRENT APPLICATION NUMBER: US/10/017,082A
33 CURRENT FILING DATE: 2002-03-25
34 PRIOR APPLICATION NUMBER: 09/918585
35 PRIOR FILING DATE: 2001-07-30
36 PRIOR APPLICATION NUMBER: 60/062250
37 PRIOR FILING DATE: 1997-10-17
38 PRIOR APPLICATION NUMBER: 60/064249
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56 PRIOR APPLICATION NUMBER: 60/078886
57 PRIOR FILING DATE: 1998-03-20
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61 PRIOR FILING DATE: 1998-03-20
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63 PRIOR FILING DATE: 1998-03-20
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65 PRIOR FILING DATE: 1998-03-25
66 PRIOR APPLICATION NUMBER: 60/079656
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68 PRIOR APPLICATION NUMBER: 60/079664
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72 PRIOR APPLICATION NUMBER: 60/079663

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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
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;; PRIOR APPLICATION NUMBER: 60/085579
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;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1806; DB 6; Length 344;
Best Local Similarity 100.0%; Pred. No. 2.2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQKXNHSISMAIFGIALCLFQGVVNSGATPPKAMDVYVROGESATLCTID 60
Db 1 MKTIQKXNHSISMAIFGIALCLFQGVVNSGATPPKAMDVYVROGESATLCTID 60
QY 61 NRTTRVAMLNSTILYAGNDKWCIDRNVLLSNTOYSEIOWVDYDGPYTCGVOTD 120
Db 61 NRTTRVAMLNSTILYAGNDKWCIDRNVLLSNTOYSEIOWVDYDGPYTCGVOTD 120
QY 121 NRPKTSRVHLIVQVSPKIVEISDISINSGNNISLTCIATGRPEPTVWHRISPKAVGFV 180
Db 121 NRPKTSRVHLIVQVSPKIVEISDISINSGNNISLTCIATGRPEPTVWHRISPKAVGFV 180
QY 181 SEBEYELIOTGTRQSGDYCSASNDVAAPVVRKRYKTVVNPPTISAKTGYPPVGOKT 240
Db 181 SEBEYELIOTGTRQSGDYCSASNDVAAPVVRKRYKTVVNPPTISAKTGYPPVGOKT 240

```

Db      181 SEDYLEIQTREQSGDYECASANDVAAPVRRVVTYVNPPTISEAKGTGVPVGOKGT 240
QY      241 LQCEASAVPSAEFQWKDKDKRLIEGKKGAVENRPPLSKLIFPNVSEHDYGNVYCVASNK 300
        |||||||
Db      241 LQCEASAVPSAEFQWKDKDKRLIEGKKGAVENRPPLSKLIFPNVSEHDYGNVYCVASNK 300
QY      301 LGHTNASIMLFGGAVSEVSNGTSTRAGCWMLLPLVHLHLKLF 344
        |||||||
Db      301 LGHTNASIMLFGGAVSEVSNGTSTRAGCWMLLPLVHLHLKLF 344

```

RESULT 14

```

US-10-119-480-126
; Sequence 126, Application US/10119480
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3530P1C1
; CURRENT APPLICATION NUMBER: US/10/119,480
; NUMBER OF SEQ ID NOS: 246
; SEQ ID NO 126
; Prior Application removed - See file Wrapper or Palm
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-119-480-126

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```

Query Match      100.0%; Score 1806; DB 6; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MKTIOPKMHSISMAIFGTGLAALCLFQGVPRSGDATFPKAMDNTVROGESATLRCTID 60
Db      1 MKTIOPKMHSISMAIFGTGLAALCLFQGVPRSGDATFPKAMDNTVROGESATLRCTID 60
QY      61 NRTVRVAMLRSTIILYAGNDKWCDDPRVLLSTNTQYQYSIEIQNDVYDEGPTGCVQTD 120
Db      61 NRTVRVAMLRSTIILYAGNDKWCDDPRVLLSTNTQYQYSIEIQNDVYDEGPTGCVQTD 120
QY      121 NHPKTSRVHLIYQVSPKIVEISDISINEGNNISLTCIATGRPEPTVWRHISPKAVGFV 180
Db      121 NHPKTSRVHLIYQVSPKIVEISDISINEGNNISLTCIATGRPEPTVWRHISPKAVGFV 180
QY      181 SEDYLEIQTREQSGDYECASANDVAAPVRRVVTYVNPPTISEAKGTGVPVGOKGT 240
Db      181 SEDYLEIQTREQSGDYECASANDVAAPVRRVVTYVNPPTISEAKGTGVPVGOKGT 240
QY      241 LQCEASAVPSAEFQWKDKDKRLIEGKKGAVENRPPLSKLIFPNVSEHDYGNVYCVASNK 300
Db      241 LQCEASAVPSAEFQWKDKDKRLIEGKKGAVENRPPLSKLIFPNVSEHDYGNVYCVASNK 300
QY      301 LGHTNASIMLFGGAVSEVSNGTSTRAGCWMLLPLVHLHLKLF 344
Db      301 LGHTNASIMLFGGAVSEVSNGTSTRAGCWMLLPLVHLHLKLF 344

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```

RESULT 15
US-10-121-049-376
; Sequence 376, Application US/10121049
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.

```

```

; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Mei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P330R1C17
; CURRENT APPLICATION NUMBER: US/10/121,049
; CURRENT FILING DATE: 2002-04-12
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 376
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-121-049-376

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Query Match      100.0%; Score 1806; DB 6; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-113;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MKTIOPKMHSISMAIFGTGLAALCLFQGVPRSGDATFPKAMDNTVROGESATLRCTID 60
Db      1 MKTIOPKMHSISMAIFGTGLAALCLFQGVPRSGDATFPKAMDNTVROGESATLRCTID 60
QY      61 NRTVRVAMLRSTIILYAGNDKWCDDPRVLLSTNTQYQYSIEIQNDVYDEGPTGCVQTD 120
Db      61 NRTVRVAMLRSTIILYAGNDKWCDDPRVLLSTNTQYQYSIEIQNDVYDEGPTGCVQTD 120
QY      121 NHPKTSRVHLIYQVSPKIVEISDISINEGNNISLTCIATGRPEPTVWRHISPKAVGFV 180
Db      121 NHPKTSRVHLIYQVSPKIVEISDISINEGNNISLTCIATGRPEPTVWRHISPKAVGFV 180
QY      181 SEDYLEIQTREQSGDYECASANDVAAPVRRVVTYVNPPTISEAKGTGVPVGOKGT 240
Db      181 SEDYLEIQTREQSGDYECASANDVAAPVRRVVTYVNPPTISEAKGTGVPVGOKGT 240
QY      241 LQCEASAVPSAEFQWKDKDKRLIEGKKGAVENRPPLSKLIFPNVSEHDYGNVYCVASNK 300
Db      241 LQCEASAVPSAEFQWKDKDKRLIEGKKGAVENRPPLSKLIFPNVSEHDYGNVYCVASNK 300
QY      301 LGHTNASIMLFGGAVSEVSNGTSTRAGCWMLLPLVHLHLKLF 344
Db      301 LGHTNASIMLFGGAVSEVSNGTSTRAGCWMLLPLVHLHLKLF 344

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Search completed: July 12, 2002, 00:42:36
Job time: 574 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 11, 2002, 23:01:37 ; Search time 67.53 Seconds
(without alignments)
489,482 Million cell updates/sec

Title: US-09-700-397-3

Perfect score: 1806

Sequence: 1 MKTIQPMNHSISMAIFTL.....RRACQWLLPLVLHLLKF 344

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283138 seqs, 96089334 residues

Total number of hits satisfying chosen parameters: 283138

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: PIR-71:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the total being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1639.5	90.8	344	2	156551
2	1285.5	71.2	338	2	JC1238
3	1268	70.2	345	2	JC4025
4	1266	70.1	345	2	S03199
5	1259	69.7	345	2	JC1239
6	936.5	51.9	338	2	JC5519
7	931.5	51.6	338	2	JC4776
8	297.5	16.5	333	2	A31923
9	283.5	15.7	725	1	IUMSNG
10	283.5	15.7	1115	1	IUMSNT
11	279.5	15.5	725	2	JF0099
12	278.5	15.5	1091	1	IYCHNL
13	278.5	15.4	4162	2	TA2633
14	277.5	15.4	858	1	IYRINC
15	277.5	15.4	1088	1	IYXLMN
16	276	15.3	761	1	IYHONG
17	275.5	15.3	853	1	IYBONC
18	273.5	15.1	725	2	JF0100
19	272.5	15.1	1323	2	PN0568
20	270.5	15.0	1092	1	JN0635
21	261.5	14.5	1091	2	S01998
22	259	14.3	7962	2	I8346
23	254.5	14.1	5175	2	T20992
24	254.5	14.1	5198	2	T43290
25	249.5	13.8	1040	2	A49356
26	246.5	13.6	1018	2	A54744
27	243.5	13.5	1021	2	A57112
28	243.5	13.5	1036	2	S22383
29	241.5	13.4	1018	2	JC4211

30	241.5	13.4	1020	2	S05944	neuronal cell surf
31	240	13.3	3707	2	S18252	heparan sulfate pr
32	235	13.0	662	2	T16525	hypothetical prote
33	234.5	13.0	1040	2	A34695	axonal glycoprotei
34	232.5	12.9	2783	2	T34416	hypothetical prote
35	230.5	12.8	868	2	A46512	CD22 homolog/B 1y
36	227.5	12.6	1051	2	A39712	kinase-like protei
37	226	12.5	6642	2	T28757	protein UNC-89 - C
38	225	12.5	4391	2	A38096	perlecan precursor
39	221.5	12.3	862	2	I49583	differentiation an
40	221	12.2	1896	2	T08851	Down syndrome cell
41	220.5	12.2	898	2	A40114	fasciclin II precu
42	219	12.1	1091	2	A56532	glial cell membran
43	218.5	12.1	1612	2	T30805	dut1 protein - mo
44	215.5	11.9	1239	1	A32579	neuroglian - fruit
45	214.5	11.9	1070	2	JC4593	protein-tyrosine k

ALIGNMENTS

```

RESULT 1
156551
neurotrimin - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 19-May-2000
C:Accession: 156551
R:Struyk, A.F.; Canoll, P.D.; Wolfgang, M.J.; Rosen, C.L.; D'Eustachio, P.; Salzer
J. Neurosci. 15, 2141-2156, 1995
A>Title: Cloning of neurotrimin defines a new subfamily of differentially expresse
A:Reference number: 156551; MIMD:95198094
A:Accession: 156551
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-344 <RES>
A:Cross-references: EMBL:U16845; NID:q755184; PIDN:AA67445.1; PID:q755185
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-

Query Match          90.8%; Score 1639.5; DB 2; Length 344;
Best Local Similarity 92.9%; Pred. No. 1.7e-113;
Matches 312; Conservative 9; Mismatches 12; Indels 3; Gaps 1;

QY 12 ISMAIFTLALCLF---QGVPRSGDAFFPKAMNTVVRGESAATLCTONRTYRVAW 68
      : : : : :
Db 9 LEWKCLVVSURLFLVPTGVPVRSGDAFFPKAMNTVVRGESAATLCTONRTYRVAW 68

QY 69 LNRSTILVAGNDKMKCLDPRVVLISNTQGYSTEIONVDVDEGPTGCSVQTDNHPKTSRV 128
      |||
Db 69 LNRSTILVAGNDKMKCLDPRVVLISNTQGYSTEIONVDVDEGPTGCSVQTDNHPKTSRV 128

QY 129 HLIVQSPKRIVEISSDISINEGNISLNCIATGRPEPTVTRHISPKAVGVSEDEYLEI 188
      |||
Db 129 HLIVQSPKRIVEISSDISINEGNISLNCIATGRPEPTVTRHISPKAVGVSEDEYLEI 188

QY 189 QGTRREGSGDEGCASNDVAAPVRRVRYKTVNPPYISSEAKGCVPGQKGLQCEASAV 248
      |||
Db 189 QGTRREGSGDEGCASNDVAAPVRRVRYKTVNPPYISSEAKGCVPGQKGLQCEASAV 248

QY 249 PAEPFQWKDKDKRLIEKKGKGVKVENPFLSKLIEFPNNSSEHDGYTCVANSNKLIGHTNASI 308
      |||
Db 249 PAEPFQWKDKDKRLIEKKGKGVKVENPFLSKLIEFPNNSSEHDGYTCVANSNKLIGHTNASI 308

QY 309 MLFPGAVSEVNSGTSRRACQWLLPLVLHLLKF 344
      |||
Db 309 MLFPGAVSEVNSGTSRRACQWLLPLVLHLLKF 344

RESULT 2
JC1238
opioid-binding protein (clone D021) - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 19-May-2000

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C:Accession: JCI1238
 R:Lipman, D.A.; Lee, N.M.; Loh, H.H.
 Gene 117, 249-254, 1992
 A:Title: Opioid-binding cell adhesion molecule (OCAM)-related clones from a rat brain
 A:Reference number: JCI1238; MUID:92347701
 A:Accession: JCI1238
 A:Molecule type: mRNA
 A:Residues: 1-338 <LIP>
 A:Cross-references: GB:M88709; NID:g203245; PIDN:AAA40858.1; PID:g203246
 A:Experimental source: brain
 A:Genetics:
 A:Gene: OCAM
 C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal

Query Match 71.2%; Score 1285.5; DB 2; Length 338;
 Best Local Similarity 71.6%; Pred. No. 2, 1e-87;
 Matches 242; Conservative 35; Mismatches 60; Indels 1; Gaps 1;

QY 8 MNSISMAIFGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCITIDNRYVA 67
 DB 1 MYHVAWIVFSAFTALFIFPGVPVRSQDATFPKAMDNVTVRQGESATLRCITIDNRYVA 60

QY 68 WLNKSTLLVAGNDKWCIDPRVLLSNTOYSTIEIONVDYDEGPTCSYQTDNHPKTSR 127
 DB 61 WLNKSTLLVAGNDKMSIDPRVLLSNTPQYSLIMQNDVDYDEGPTCSYQTDNHPKTSR 120

QY 128 VHLIVQSPKIVEISSDISINEGNNISLTCIATGREPEPTVWRHLSPK-AVGFVSEDEYL 186
 DB 121 VHLIVQPPQIMNISSDITFVNEISSVLLCLALGRPEPTVWRHLSKVEGQGVSEDEYL 180

QY 187 EIOGITREQSGDYECASNDVAAPVRRVKNVPPYISAKGTGVPVQKGLTQCEAS 246
 DB 181 EISIDKRDQSGEYECASALNDVAAPVRRVKNVPPYISAKMTGVSQKGLTQCEAS 240

QY 247 AVPSAEFQWKDKRLIEGKKGVKVENRPLSKLIFPNVSEHDGNTTCVASKLCHTNA 306
 DB 241 AVPSAEFQWKEDTRLATGLDGVRIENKGRISTLTFPNVSEHDGNTTCVATNKLTNTNA 300

QY 307 SIMLFGPAVSEVSNQTSRRACVWLLPLVLLHLKE 344
 DB 301 STLYGPAVIDGVNSASRALACLMLSGTFFAHFFIKF 338

RESULT 3
 JCI4025
 Opioid-binding cell adhesion protein - human
 C:Species: Homo sapiens (man)
 C:Date: 13-Jun-1995 #sequence_revision 14-Jul-1995 #text_change 17-Mar-2000
 C:Accession: JCI4025
 R:Shark, K.B.; Lee, N.M.
 Gene 155, 213-317, 1995
 A:Title: Cloning, sequencing and localization to chromosome 11 of a cDNA encoding a human
 A:Reference number: JCI4025; MUID:95237612
 A:Accession: JCI4025
 A:Molecule type: mRNA
 A:Residues: 1-345 <SHA>
 A:Cross-references: GB:134774; NID:g514373; PIDN:AAA36387.1; PID:g514374
 A:Experimental source: brain
 A:Comment: This protein binds opioid alkaloids in the presence of acidic lipids, exhibit
 C:Genetics:
 A:Gene: GDB:OPCM; OCAM; OPCM
 A:Cross-references: GDB:251677; OKIM:600632
 A:Map position: 11pter-11qter
 C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-terminal

Query Match 70.2%; Score 1268; DB 2; Length 345;
 Best Local Similarity 71.2%; Pred. No. 4, 2e-86;
 Matches 240; Conservative 37; Mismatches 56; Indels 4; Gaps 2;

QY 12 ISMAIFGLAALCLF---QGVPRSGDATFPKAMDNVTVRQGESATLRCITIDNRYVA 68
 DB 12 ISMAIFGLAALCLF---QGVPRSGDATFPKAMDNVTVRQGESATLRCITIDNRYVA 68

DB 9 LPMKCLVWSLRLFLVPTGVPVRSQDATFPKAMDNVTVRQGESATLRCITIDNRYVA 68

QY 69 LNSTLLVAGNDKWCIDPRVLLSNTOYSTIEIONVDYDEGPTCSYQTDNHPKTSR 128
 DB 69 LNSTLLVAGNDKMSIDPRVLLSNTPQYSLIMQNDVDYDEGPTCSYQTDNHPKTSR 128

QY 129 HLIVQSPKIVEISSDISINEGNNISLTCIATGREPEPTVWRHLSPK-AVGFVSEDEYL 187
 DB 129 HLIVQPPQIMNISSDITFVNEISSVLLCLALGRPEPTVWRHLSKVEGQGVSEDEYL 188

QY 188 IQGITREQSGDYECASNDVAAPVRRVKNVPPYISAKGTGVPVQKGLTQCEASA 247
 DB 189 ISDKRDQSGEYECASALNDVAAPVRRVKNVPPYISAKMTGVSQKGLTQCEASA 248

QY 248 VPSAEFQWKDKRLIEGKKGVKVENRPLSKLIFPNVSEHDGNTTCVASKLCHTNA 307
 DB 249 VPSAEFQWKEDTRLATGLDGMRIENKGRISTLTFPNVSEHDGNTTCVATNKLTNTNA 308

QY 308 IMLFGPAVSEVSNQTSRRACVWLLPLVLLHLKE 344
 DB 309 ITLYGPAVIDGVNSASRALACLMLSGTFFAHFFIKF 345

RESULT 4
 S03199
 Opioid-binding protein OCAM precursor - bovine
 C:Species: Bos primigenius taurus (cattle)
 C:Date: 04-Dec-1992 #sequence_revision 04-Dec-1992 #text_change 17-Mar-2000
 C:Accession: S03199
 R:Schroff, J.R.; McFarland, K.C.; Hayflick, J.S.; Wilcox, J.N.; Cho, T.M.; Roy, S.
 EMBO J. 8, 489-495, 1989
 A:Title: Molecular characterization of a new immunoglobulin superfamily protein w1
 A:Reference number: S03199; MUID:89251576
 A:Accession: S03199
 A:Molecule type: mRNA
 A:Residues: 1-345 <SCH>
 A:Cross-references: EMBL:X12672; NID:g585; PIDN:CAA31192.1; PID:g586
 C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-1
 C:Keywords: transmembrane protein
 F:1-27/Domain: signal sequence #status predicted <SIG>
 F:28-345/Product: opioid-binding protein OCAM #status predicted <MAT>

Query Match 70.1%; Score 1266; DB 2; Length 345;
 Best Local Similarity 71.6%; Pred. No. 5, 9e-86;
 Matches 240; Conservative 34; Mismatches 57; Indels 4; Gaps 2;

QY 14 WAITGLAALCLF---QGVPRSGDATFPKAMDNVTVRQGESATLRCITIDNRYVA 70
 DB 11 WKCLVWSLRLFLVPTGVPVRSQDATFPKAMDNVTVRQGESATLRCITIDNRYVA 70

QY 71 RSTLLVAGNDKWCIDPRVLLSNTOYSTIEIONVDYDEGPTCSYQTDNHPKTSR 130
 DB 71 RSTLLVAGNDKMSIDPRVLLSNTPQYSLIMQNDVDYDEGPTCSYQTDNHPKTSR 130

QY 131 IVQVSPKIVEISSDISINEGNNISLTCIATGREPEPTVWRHLSPK-AVGFVSEDEYLEIQ 189
 DB 131 IVQVPPQIMNISSDITFVNEISSVLLCLALGRPEPTVWRHLSKVEGQGVSEDEYLEIS 190

QY 190 GITREQSGDYECASNDVAAPVRRVKNVPPYISAKGTGVPVQKGLTQCEASAVP 249
 DB 191 DIKRDQSGEYECASALNDVAAPVRRVKNVPPYISAKMTGVSQKGLTQCEASAVP 250

QY 250 SAEFQWKDKRLIEGKKGVKVENRPLSKLIFPNVSEHDGNTTCVASKLCHTNA 309
 DB 251 MAEFQWKEDTRLATGLDGMRIENKGRISTLTFPNVSEHDGNTTCVATNKLTNTNA 310

QY 310 LFGPAVSEVSNQTSRRACVWLLPLVLLHLKE 344
 DB 311 LYGPVAVIDGVNSASRALACLMLSGTFFAHFFIKF 345

RESULT 5

Query Match	51.9%;	Score 936.5;	DB 2;	Length 338;
Best Local Similarity	56.0%;	Pred. No. 1.1e-61;		

Db 195 YECCAANEVSSADYKOVKVTNYPPTITESKSNEATTGBOASI,KCEASAVPADPFEWYRD 25

10

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QY 156 TCIANGQREPTVYMR-----HISPKVAVGSEDELTQGITKEGSGDE 200
Db 329 TEASAGDPISITWRKSTRNISISEQDLDGHMYVRSHAVSS---LTLKTIQYRDAGEYM 385
QY 201 CSASNDVAAPVRRVRYVNPYPYISAKGTGVPVQSGKTQCEASVAPSAEFGWTQDKD 260
Db 386 CTSANITIGD-SQSIDLEFQYAPKLOGPVAVYTWEGSNQVNIICEFYAVPSATISMFROGQ 444
QY 261 KLEIEK-KGVAVENRPEFLSKLIFFNVSHEHDYGNTGCVASNKGHTNMSIML 310
Db 445 LIPSSNYSNIKITYNPESASYLEVTVPDSEDFGNCTAVNRIGQSELEFLL 495

RESULT 11
JB0099
neural cell adhesion molecule 1 - African clawed frog
N:Alternate names: N-CAM 1
C:Species: Xenopus laevis (African clawed frog)
C:Date: 19-May-1998 #sequence_revision 29-May-1998 #text_change 21-Jul-2000
C:Accession: J05009
R:Kido, M.; Takayama, E.; Tadokuma, T.; Shiohawa, K.
Biochem. Biophys. Res. Commun. 245, 127-132, 1998
A:Title: Molecular cloning of ssd-form neural cell adhesion molecules (N-CAMs) as
A:Reference number: J05009, MIMD:98204770
A:Accession: J05009
A:Molecule type: mRNA
A:Residues: 1-725 <KID>
A:Cross-references: DDBJ:AB008162; NID:g3116226; PID:BAA5931.1; PID:g3116227
A:Experimental source: heart
C:Comment: This protein mediates and regulates various cell-cell interactions thrc
C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology
F:413-475/Domain: immunoglobulin homology <IMM>
F:512-589/Domain: fibronectin type III repeat homology <3FR>

Query Match 15.5%; Score 279.5; DB 2; Length 725;
Best Local Similarity 27.9%; Pred. No. 8.3e-13;
Matches 80; Conservativity 50; Mismatches 120; Indels 37; Gaps 11;

QY 44 NATVYQGSATLRLCTIDN-RYTRVAMLMKRSITLLAGNDKKCLDPRYVLLSMTQFYSIEI 102
Db 219 NATAKMAESVVLSDADGFPDPREISMLKGEPEIDEGEK-----ISFNEQSEMTI 269
QY 103 QNVDDYDEGPYTCGVQFDNHEPKTSRLHLIVQVSPKLYEISDSISIEENNISLTLCIATGR 162
Db 270 HHNKDDDEAEVSCIANNOAGEAEATLLKYAKRKIIYVANKRAV-ELDEITLTCESGSD 328
QY 163 PEPTVTW---RHISPRAV---GVSEDEVELIEQITRE----QSGDECSASNDVAAP 210
Db 329 PIPSTWIRFAVRNKSISATTLQGHLYVKEHIRMALTKIDIOYTAGGEFCIASNPIGVD 388
QY 211 VVRRVYVYVNPYPYISAKGTGVPV-----GQKGLQCCASVAPSAEFGWYKXDKDKLIE 264
Db 389 -MQAMFEVQYAPKI---RG---PVVYVTWEGNDVNITTCVFNHPRPAVYTFRQGLIPS 441

QY 265 GK-KGVAVENRPEFLSKLIFFNVSHEHDYGNTGCVASNKGHTNMSIML 310
Db 442 SINSNKIKITSGPTSSILEVNPDSSEDFGNCTAVNRIGQSELEFLL 488

RESULT 12
JB0099
neural cell adhesion molecule long domain form precursor - chicken
N:Alternate names: NCAM-180
N:Contents: neural cell adhesion molecule, short domain form (NCAM-140)
C:Species: Gallus gallus (chicken)
C:Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 22-Jun-1999
C:Accession: A43613; A25435; B25435; A46550; S36950; A44369; A60852; S29666
R:Cunningham, B.A.; Hemmely, J.J.; Murray, B.A.; Prediger, E.A.; Brackenbury, R.;
Article 236, 799-806, 1987
A:Title: Neural cell adhesion molecule: structure, immunoglobulin-like domains, ce
A:Reference number: A43613; MIMD:87206190

```

[illegible]

Db	336	P1PSTWPTSTNRNISSEKASMTREKQETLDDGMYVSHARVSS---	LTLSIQYTDAG	392
Qy	198	DIECASNDVAAPVRRVRYVYVPPYISEAKGCVGQKGLDCEASNPASFEPWYK	257	
Db	393	EYICFASNTIGQD-SQSMYLEVOYAPKLOGVAVYTWEGNVCITCEFAFASPTISMR	451	
Qy	258	DKRLIECK-KGVYENRRPLSKLFFNFVSHDYGNTCVASNKIGHNNAISIML	310	
Db	452	DDQLLPSSNYSNITTYTPSASTLEYETDSENDGNCNCAVNRIGQESLEFIL	505	
RESULT	15			
TXNLNTL		neural cell adhesion molecule long domain form precursor - African clawed frog		
N:Alternate names:	NCAM-180			
N:Contains:	neural cell adhesion molecule, short domain form (NCAM-140)			
C:Species:	Xenopus laevis (African clawed frog)			
C:Date:	31-Mar-1993	#sequence_revision 31-Mar-1993	#text_change 22-Jun-1999	
C:Accession:	S09600			
R:Riegle, P.A.; Sakaguchi, D.S.; Kilmner, C.R.				
Nucleic Acids Res	17, 10321-10335, 1989			
A:Title:	Primary structure and developmental expression of a large cytoplasmic domain			
A:Accession:	509600; M0ID:9009871			
A:Reference number:	509600; M0ID:9009871			
A:Residues:	1-1088 <KRI>			
A:Molecule type:	mRNA			
A:Cross-references:	EMBL:M25696; NID:9214609; PIDN:AAA4909.1; PID:9224610			
A>Note:	the authors translated the codon AAA for residue 970 as Leu			
C:Comment:	NCAM mediates cell-cell adhesion via homophilic binding with another NCAM			
C:Comment:	Several forms of NCAM are produced by alternative splicing.			
C:Genetics:				
A:Gene:	NCAM			
C:Superfamily:	neural cell adhesion molecule; fibronectin type III repeat homology			
C:Keywords:	alternative splicing; brain; cell adhesion; duplication; heparin binding			
F:1-19/Domain:	signal sequence #status predicted <Sig>			
F:20-1088/Product:	neural cell adhesion molecule, long domain form #status predicted			
F:20-803/1050-1088/Product:	neural cell adhesion molecule, short domain form #status predicted <EXT>			
F:20-705/Domain:	extracellular #status predicted <EXT>			
F:34-95/Domain:	immunoglobulin homology <IMM1>			
F:129-188/Domain:	immunoglobulin homology <IMM2>			
F:149-153/Region:	heparin binding #status predicted			
F:158-162/Region:	heparin binding #status predicted			
F:225-284/Domain:	immunoglobulin homology <IMM3>			
F:317-381/Domain:	immunoglobulin homology <IMM4>			
F:413-475/Domain:	immunoglobulin homology <IMM5>			
F:512-589/Domain:	fibronectin type III repeat homology <FN3A>			
F:618-679/Domain:	fibronectin type III repeat homology <FN3B>			
F:706-723/Domain:	transmembrane #status predicted <INT>			
F:724-1088/Domain:	intracellular #status predicted <INT>			
F:41-93,136-186,233-282,323-379,420-473/Dsulfide bonds:	#status predicted			
F:219,310,341,417,443,472/Binding site:	carbohydrate (Asn) (covalent) #status predicted			
Query Match	15.4%	Score 277.5; DB 1; Length 1088;		
Best local similarity	27.9%	Pred. No. 2e-12;		
Matches	80; Conservative 49; Mismatches 121; Indels 37; Gaps 11;			
Qy	44	NATVROGESATLCTIDN-RVTRVAMLNSTLLAGNDKWCIDP RVYLLSTNTQYQYSIEI	102	
Db	219	NATANNAAEVSYLSCDAGFPDPPEISWLKGFIEDEGEK-----ISFNEQDSEWTI	269	
Qy	103	QUNDVDEDEPTCSQYDNDNPKTSRHLIYQVSKYIEISDSISNEGNNISLTICATNR	162	
Db	270	HHVEKDEAEVSCIANNOGAEADATLLKLVAKRPITTYVENKTAV-ELDEYLLTTEASGD	328	
Qy	163	PEPTVW---RHISPRAV---GFVSEDEYLETIGITRE-----QSGDECSASNDVAAP	210	
Db	329	PIPSIMWRVRYANISSEATLLDHIYVKKHIRMSATLLKIOYTDAGEYFCIASNPISGYD	388	
Qy	211	VVRVRYVYVYVPPYIASEKGTGVV-----GQKGLQCEASAVPSAEQWYKDDKRLIE	264	
Db	389	-MQAMTFEVOYAPKI---RG---PVVVYTWENPNVNIICEVFAHPRAAATVWFRDQLPS	441	

QY 265 GK-KGVAVENRPFSLKLIFFNVEHDYGNTCAASMLGHTNASIML 310
:::-||-|||||:-||:-||
Db 442 SNEFNKIYYSGPTSSLEVPNDSEDFGNINCTAINTIGHEEFTIL 488

Search completed: July 12, 2002, 00:36:19
Job time: 5682 sec

GenCore version 4.5
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OK protein - protein search, using sw model

Run on: July 12, 2002, 00:35:02 ; Search time 35.02 seconds
(without alignments)
380.341 Million cell updates/sec

Title: US-09-700-397-3
Perfect score: 1806
Sequence: 1 MKTIQKMHNSISMAIFGL.....RRAGCWLLPVLVHLKRF 344

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 105224 seqs, 38719550 residues

Total number of hits satisfying chosen parameters: 105224

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_40.*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1639.5	90.8	344	1 NTRI_RAT	062718 rattus norv
2	1477.5	81.8	353	1 CEBU_CHICK	090773 gallus gall
3	1305	72.3	337	1 G55A_CHICK	098892 gallus gall
4	1268	70.2	345	1 OPCM_HUMAN	014982 homo sapien
5	1266	70.1	345	1 OPCM_BOVIN	P11834 bos taurus
6	1259	69.7	345	1 OPCM_RAT	P32736 rattus norv
7	938.5	52.0	338	1 LAMP_CHICK	098919 gallus gall
8	931.5	51.6	338	1 LAMP_HUMAN	Q13449 homo sapien
9	926.5	51.3	338	1 LAMP_RAT	062813 rattus norv
10	815	45.1	348	1 K110_RAT	092058 rattus norv
11	297.5	16.5	333	1 AMAL_DROME	P15364 drosophila
12	283.5	15.7	725	1 NCAL_MOUSE	P13594 mus musculu
13	283.5	15.7	1115	1 NCAL_MOUSE	P13595 mus musculu
14	279.5	15.5	1091	1 NCAL_CHICK	P13596 gallus gall
15	277.5	15.4	858	1 NCAL_RAT	P13596 rattus norv
16	277.5	15.4	1088	1 NCAL_XENLA	P16170 xenopus lae
17	276	15.3	761	1 NCAL_HUMAN	P13592 homo sapien
18	276	15.3	848	1 NCAL_HUMAN	P13591 homo sapien
19	275.5	15.3	853	1 NCAL_BOVIN	P31836 bos taurus
20	270.5	15.0	1092	1 NCAL_XENLA	P36335 xenopus lae
21	261.5	14.5	1010	1 COMT_CHICK	P14781 gallus gall
22	255	14.1	359	1 LACH_DROME	024372 drosophila
23	251.5	13.9	837	1 NCAL_MOUSE	035136 mus musculu
24	250	13.8	349	1 LACH_SCHAM	026474 schistocerc
25	249.5	13.8	1040	1 AXOL_HUMAN	002246 homo sapien
26	246.5	13.6	1018	1 COMT_HUMAN	Q12860 homo sapien
27	243.5	13.5	1021	1 COMT_RAT	061398 rattus norv
28	243.5	13.5	1036	1 AXOL_CHICK	P28685 gallus gall
29	241.5	13.4	837	1 NCAL_HUMAN	015394 homo sapien
30	241.5	13.4	1020	1 COMT_MOUSE	P12960 mus musculu
31	240	13.3	3707	1 PGBM_MOUSE	005793 mus musculu
32	234.5	13.0	1040	1 AXOL_RAT	P22063 rattus norv
33	230	12.7	4393	1 PGBM_HUMAN	P98160 homo sapien

34	227.5	12.6	1051	1 PTK7_CHICK	091048 gallus gall
35	221.5	12.3	862	1 CD22_MOUSE	P35329 mus musculu
36	221	12.2	2012	1 DSCA_HUMAN	060469 homo sapien
37	220.5	12.2	898	1 FAS2_HUMAN	P22648 schistocerc
38	215.5	11.9	1302	1 NRG_DROME	P20241 drosophila
39	211.5	11.7	811	1 FS22_DROME	P34083 drosophila
40	211.5	11.7	873	1 FS21_DROME	P34082 drosophila
41	211.5	11.7	1070	1 PTK7_HUMAN	Q13308 homo sapien
42	211.5	11.7	1461	1 NEOL_HUMAN	Q92859 homo sapien
43	210	11.6	1914	1 KLS_HUMAN	Q15746 homo sapien
44	204.5	11.3	1377	1 NEOL_RAT	P97603 rattus norv
45	204	11.3	1443	1 NEOL_CHICK	Q90610 gallus gall

ALIGNMENTS

RESULT	ID	STANDARD	PRT	344 AA
1	NTRI_RAT			
AC	062718;			
DT	01-NOV-1997 (rel. 35, Created)			
DT	01-NOV-1997 (rel. 35, Last sequence update)			
DT	30-MAY-2000 (rel. 39, Last annotation update)			
DE	Neurotrophin precursor (GP65).			
OS	Rattus norvegicus (Rat).			
CC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
CC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.			
OX	NCBI_TaxID=10116;			
RN	[1]			
RP	SEQUENCE FROM N.A., AND SEQUENCE OF 217-229.			
RC	SPRAIN=SPRAIN-DAMLEY;			
RX	MEDLINE=95198094; PubMed=7891157;			
RA	Struyk A.F., Canoll P.D., Wolfgang M.J., Rosen C.L., D'Eustachio P.,			
RA	Salzer J.L.;			
RT	"Cloning of neurotrophin defines a new subfamily of differentially			
RT	expressed neural cell adhesion molecules.";			
RL	J. Neurosci. 15:2141-2156(1995).			
CC	-1- FUNCTION: NEURAL CELL ADHESION MOLECULE.			
CC	-1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.			
CC	-1- TISSUE SPECIFICITY: CENTRAL NERVOUS SYSTEM.			
CC	-1- DEVELOPMENTAL STAGE: EXPRESSED AT HIGH LEVELS IN SEVERAL			
CC	DEVELOPING PROJECTION SYSTEMS: IN NEURONS OF THE THALAMUS,			
CC	SUBPLATE, AND LOWER CORTICAL LAMINAE IN THE FOREBRAIN AND IN THE			
CC	PONTINE NUCLEUS, CEREBELLAR GRANULE CELLS, AND PURKINJE CELLS IN			
CC	THE HINDBRAIN.			
CC	-1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON			
CC	SUBFAMILY.			
CC	-1- SIMILARITY: CONTAINS 3 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
CC	the European Bioinformatics Institute. There are no restrictions on its			
CC	use by non-profit institutions as long as its content is in no way			
CC	modified and this statement is not removed. Usage by and for commercial			
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC	or send an email to license@isb-sib.ch).			
CC	-----			
DR	EMBL; U16845; AA67445.1; -			
DR	InterPro: IPR003006; IG_MHC.			
DR	InterPro: IPR003598; IG_C2.			
DR	InterPro: IPR003600; IG_LIKE.			
DR	Pfam: PF00047; 1g_3.			
DR	SMART; SM00410; IG_Like; 1.			
DR	SMART; SM00408; IGC2; 2.			
KW	Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;			
KW	Repeat; Signal.			
FT	SIGNAL	1	31	POTENTIAL.
FT	CHAIN	32	321	NEUROTROPHIN.
FT	PROPEP	322	344	REMOVED IN MATURE FORM (POTENTIAL).
FT	DOMAIN	50	122	IG-LIKE C2-TYPE DOMAIN 1.
FT	DOMAIN	150	208	IG-LIKE C2-TYPE DOMAIN 2.
FT	DOMAIN	236	302	IG-LIKE C2-TYPE DOMAIN 3.


```

RESULT 3
G55A_CHICK STANDARD; PRT; 337 AA.
ID G55A_CHICK
AC 098892;
DT 01-NOV-1997 (Rel. 35, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Neurite inhibitor GP55-A precursor (OBCCM protein gamma isoform).
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxId=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Lodge A.P., Kim D.-S., Howard M.R., McNamee C.J., Smith N., Moss D.J.;
RT "Cloning of CEPU-s, a secreted isoform of CEPU-1, and OBCCM cDNAs from
RT chick: structural diversity of IgLON family proteins.",
RL Submitted (Apr-1999) to the EMBL/Genbank/DBJ databases.
RN [2]
RP SEQUENCE OF 64-337 FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Brain;
RX MEDLINE=97157768; PubMed=9004047;
RA Wilson D.J.A., Kim D.-S., Clarke G.A., Marshall-Clarke S., Moss D.J.;
RT "A family of glycoproteins (GP55), which inhibit neurite outgrowth,
RT are members of the Ig superfamily and are related to OBCCM,
RT neurotatin, LAMP and CEPU-1.",
RL J. Cell Sci. 109:3129-3138(1996).
CC -1- FUNCTION: INHIBITS NEURITE OUTGROWTH.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -1- TISSUE SPECIFICITY: RESTRICTED TO THE NERVOUS SYSTEM.
CC -1- DEVELOPMENTAL STAGE: INCREASES DURING DEVELOPMENT FROM VERY LOW
CC LEVELS AT EMBRYONIC DAY 10 AND IS MOST ABUNDANT AFTER HATCHING.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
CC SUBFAMILY.
CC -1- SIMILARITY: CONTAINS 3 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
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CC entities requires a license agreement (See http://www.isb-sdb.ch/announce/
CC or send an email to license@isb-sdb.ch).
CC -----
DR EMBL: Y08170; CAB41420.1; -
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR Pfam: PF00047; Ig; 4
DR SMART: SM00410; Ig_Like; 1.
DR SMART: SM00408; IGC2; 2.
KW Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;
KW Repeat; Signal.
FT SIGNAL 1 20
FT CHAIN 21 317
FT PROPEP 318 337
FT DOMAIN 43 115
FT DOMAIN 143 201
FT DOMAIN 229 295
FT DISULFID 150 194
FT DISULFID 236 288
FT CARBOHYD 133 133
FT CARBOHYD 277 277
FT CARBOHYD 285 285
FT CARBOHYD 298 298
SQ SEQUENCE 337 AA; 36887 MW; BAE71755185651E CRC64;

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Query Match

72.3%; Score 1305; DB 1; Length 337;

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Best Local Similarity 73.2%; Pred. No. 4,4e-98;
Matches 248; Conservative 34; Mismatches 53; Indels 4; Gaps 2;

QY 8 MNSISWALFTGLAALCLFQGVPRSGDAFFPRANDVTVRQGSATLRCCTDNPTRYVA 67
D 1 MYHPCWIVFTATFLLFIPGVPRSGDAPFRKADNTVVRQGSATLRCCTVDPRVVA 60
QY 68 WLNRSITLYACDKKCLDPRVYLSTQYQYSEIQNDVYDEGPYCSQYQNNHKTR 127
D 61 WLNRSITLYACDKKCLDPRVYLSTQYQYSEIQNDVYDEGPYCSQYQNNHKTR 120
QY 128 VHLITVQSPKIYEISDISEIGNNISTLCINTAGREPTVYWRHISPKAAGFVSEDEYLE 187
D 121 VHLITVQSPKIYEISDISEIGNNISTLCINTAGREPTVYWRHISPKAAGFVSEDEYLE 180
QY 188 IGGITREQSGDYECASNDVAAPVYRKYTVYTPYISSEAKGTGVPGKGTLOCEASA 247
D 181 ITGITREQSGDYECASNDVAAPVYRKYTVYTPYISSEAKGTGVPGKGTLOCEASA 240
QY 248 VPSAEQWIKDKRLIEKSKVYKRNPFISKIIPNNSEHDYGYTVASNKLGHITNS 307
D 241 VPSAEQWIKDKRLIEKSKVYKRNPFISKIIPNNSEHDYGYTVASNKLGHITNS 300
QY 308 IMLEPGAVSEVSNCTSRAC--CWLLPLVYLHLILKE 344
D 301 ILLKPGAVHDSGNASNAAGLCIM--ATLARLLIDP 337

RESULT 4
OPCM_HUMAN STANDARD; PRT; 345 AA.
ID OPCM_HUMAN
AC 014982;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Opioid binding protein/cell adhesion molecule precursor (OBCCM)
DE Opioid-binding cell adhesion molecule (OPCM).
GN OPCM OR OBCCM.
OS Homo sapiens (Human).
CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxId=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=occipital cortex;
RX MEDLINE=95237612; PubMed=7721093;
RA Shark K.B., Lee N.M.;
RT "Cloning, sequencing and localization to chromosome 11 of a cDNA
RT encoding a human opioid-binding cell adhesion molecule (OBCCM).",
RL Gene 155:213-217(1995).
CC -1- FUNCTION: BINDS OPIOIDS IN THE PRESENCE OF ACIDIC LIPIDS; PROBABLY
CC INVOLVED IN CELL CONTACT.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By
CC similarity).
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
CC SUBFAMILY.
CC -1- SIMILARITY: CONTAINS 3 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC or send an email to license@isb-sdb.ch).
CC -----
DR EMBL: L34774; AAA36387.1; -
DR MIM: 600632; -
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR Pfam: PF00047; Ig; 3.
DR SMART: SM00410; Ig_Like; 1.

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RESULT	5		
OPCMA_BOVIN			
ID	OPCMA_BOVIN	STANDARD:	PRT; 345 AA.
AC	P11834;		
DT	01-OCT-1989 (Rel. 12, Created)		
DT	01-OCT-1989 (Rel. 12, Last sequence update)		
DT	16-OCT-2001 (Rel. 40, Last annotation update)		
DE	Oploid-binding protein/cell adhesion molecule precursor (OBSCAM)		
DE	(Oploid-binding cell adhesion molecule) (OPCML).		
GN	OPCML OR OBSCAM OR OCAM.		
OS	Bos taurus (Bovine);		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecopa; Bovidae		
OC	Bovidae; Bovinae; Bos.		
OX	NCBI_TaxID=9913;		
RN	[1]		
RP	SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.		
RC	TISSUE=Brain;		
RX	MEDLINE=89251576; PubMed=2721489;		
RA	Schlotfeld P.R., McFarland K.C., Hayflick J.S., Wilcox J.N.,		
RA	Cho T.M., Roy S., Lee N.M., Loh H.H., Seeburg P.H.;		

Query Match	70.1%	Score 1266	DB 1	Length 345
Best Local Similarity	71.6%	Prod. No. 6.3e-95		
Matches 240	Conservative 34	Mismatches 57	Indels 4	Gaps 2
QY	14	MAIFTLGALCLF--QGVPRVSSGDATEPKKMDNVTVROGESATLRCTIDNRVTRVAMLN	70	
		..:::		
DB	11	MWCLVWVSLRLLEFVTPGVPRVSSGDATEPKKMDNVTVROGESATLRCTIDNRVTRVAMLN	70	
QY	71	RSTIIYAANDKWCILDPRVVLNSFTQYSIEIQVADVDEGPTQSVOTDNHPTSRVHL	130	
DB	71	RSTIIYAANDKWCILDPRVVLINFTQYSIMIQADVDEGPTQSVOTDNHPTSRVHL	130	
QY	131	IYQVSEPKLVEISDSISINBNNISLTCLATGRPEPTVYMRHISPK-AVGPVSEDEYLEIO	189	
DB	131	IYQVPEQIMNISPVYVNBGSVLTLCIATGRPEPTVYMRHISVKEQGVPESEDEYLEIS	190	
QY	190	GITRQSESDYSCASNDVVAAPVVRKVTYVVPPTYSSEAKGTGVGVQKGLQCEAAVAP	249	
DB	191	DIKRRQSESEHSCALNDVVAAPVVRKVTYVVPPTYSSEAKNTGVSGVKGGLTSCSAVAP	250	
QY	250	SAEFQWIKDKRLLECKKGVKVENPEFSKLIIPNVSEHDYGNATCVASNRKLGHTNASIK	309	
DB	251	MAEFQWIEEDTRLATIDGMRLENNGHSLTLEFPNVSEHDYGNATCVATNLGLGHTNASIT	310	


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RL Bur. J. Neurosci. 9:1105-1116(1997).
CC -1- FUNCTION: MEDIATES SELECTIVE NEURONAL GROWTH AND AXON TARGETING.
CC PROBABLY SERVES AS A RECOGNITION MOLECULE FOR THE FORMATION OF
CC LIMBIC CONNECTIONS (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By
CC similarity).
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
CC SUBFAMILY.
CC -1- SIMILARITY: CONTAINS 3 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -----
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CC -----
DR EMBL: Y08171; CA69357.1; -.
DR EMBL: 294720; CAB08115.1; -.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00410; Ig_Like; 1.
DR SMART: SM00408; IgC2; 2.
KW Immunoglobulin domain; Cell adhesion; glycoprotein; GPI-anchor;
KW Repeat; Signal.
FT CHAIN 1 28 POTENTIAL.
FT STGNL 29 338 LIMBIC SYSTEM-ASSOCIATED MEMBRANE
FT PROPEP 29 338 PROTEIN.
FT DOMAIN 46 118 REMOVED IN MATURE FORM (POTENTIAL).
FT DOMAIN 146 204 IG-LIKE C2-TYPE DOMAIN 1.
FT DOMAIN 232 297 IG-LIKE C2-TYPE DOMAIN 2.
FT DISULFID 53 111 IG-LIKE C2-TYPE DOMAIN 3.
FT DISULFID 153 197 POTENTIAL.
FT DISULFID 239 290 POTENTIAL.
FT CARBOHYD 40 40 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 66 66 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 136 136 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 148 148 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 279 279 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 287 287 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 300 300 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 315 315 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 338 AA; 37394 MW; 8FA4A60AD98426B4 CRC64;

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Query Match 52.0%; Score 938.5; DB 1; Length 338;
 Best Local Similarity 56.0%; Pred. No. 1.6e-68;
 Matches 182; Conservative 56; Mismatches 82; Indels 5; Gaps 4;

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QY 20 LALCLF-QGVPRVSGDAPPKAMDNVTVROGESATLRCHIDNRVTRVAMLRSTLYAG 78
DB 17 LRLDLLPTGLPRVSD--PTRGTDMITVROSDTALLRCYEDRSKSVAMLRSSITTAG 74
QY 79 NDKWCLDPRVVLSTNTQTSYIEIQNVVDYDEGPYCSVQTDNHPKTSRYHLIVQSPKI 138
DB 75 EDKMSLDPRVLEKRSLEYSLRIQKVVDYDGSYCSVQTDNHPKTSRYHLIVQSPKI 134
QY 139 VEISSDISINGNNISLTCIATGRPPVYTWHRHSIPRAVGFVSEDEYLITQITREOSGD 198
DB 135 SNSSSDITVNGSNVTLVCMANGRPVPTWHRHLTPGKFEDEEYELITITREOSGK 194
QY 199 YECASNDVAPVVRVRYVNPVPIYSKAGTGVPGVSGKGTLOCEASAVPSAEROWKD 258
DB 195 YECKANVYASADYKQVRYVNPPIYTESKNSNEAKRGKALLRCASAVPFPDEMYRD 254
QY 259 DKRLIEGKKGVKVENRPFSLKLIFFVSEHDYGNNTCVASNKLGHTNASIMLFGVAISE 318
DB 255 DTR-INSANGLEIKSTGOSLIMVAVTVEEHYGNVTCVAANKLGVTNASTLYLRBG-TGR 312

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QY 319 VSNQTSRRAGCWLLPLVLLHLK 343
DB 313 VNSGVSILAVPLWMLASTLCLSK 337
RESULT 8
ID LAMP_HUMAN STANDARD; PRT; 338 AA.
AC 013449;
DT 01-NOV-1997 (Rel. 35, Created)
DT 16-OCT-2001 (Rel. 35, Last sequence update)
DE Limbic system-associated membrane protein precursor (LAMP).
GN LAMP OR LAMP.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=96235133; Pubmed=8666243;
RA Pimenta A.F., Fischer I., Levitt P.;
RT "cDNA cloning and structural analysis of the human limbic-system-
associated membrane protein (LAMP).";
RL Gene 170:189-195(1996).
CC -1- FUNCTION: MEDIATES SELECTIVE NEURONAL GROWTH AND AXON TARGETING.
CC CONTRIBUTES TO THE GUIDANCE OF DEVELOPING AXONS AND REMODELING OF
CC OF THE HIPPOCAMPAL MOSSY FIBER PROJECTION (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -1- TISSUE SPECIFICITY: EXPRESSED ON LIMBIC NEURONS AND FIBER TRACTS
CC AS WELL AS IN SINGLE LAYERS OF THE SUPERIOR COLLICULUS, SPINAL
CC CHORD AND CEREBELLUM.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
CC SUBFAMILY.
CC -1- SIMILARITY: CONTAINS 3 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -----
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CC -----
DR EMBL: Q41901; AAC50569.1; -.
DR MIM: 603241; -.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR Pfam: PF00047; Ig_3.
DR SMART: SM00410; Ig_Like; 1.
DR SMART: SM00408; IgC2; 2.
KW Immunoglobulin domain; Cell adhesion; glycoprotein; GPI-anchor;
KW Repeat; Signal.
FT CHAIN 1 28 POTENTIAL.
FT STGNL 29 315 LIMBIC SYSTEM-ASSOCIATED MEMBRANE
FT PROPEP 316 338 PROTEIN.
FT DOMAIN 46 118 REMOVED IN MATURE FORM (POTENTIAL).
FT DOMAIN 146 204 IG-LIKE C2-TYPE DOMAIN 1.
FT DOMAIN 232 297 IG-LIKE C2-TYPE DOMAIN 2.
FT DISULFID 53 111 IG-LIKE C2-TYPE DOMAIN 3.
FT DISULFID 153 197 POTENTIAL.
FT DISULFID 239 290 POTENTIAL.
FT CARBOHYD 40 40 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 66 66 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 136 136 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 148 148 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 279 279 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 287 287 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 300 300 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 315 315 N-LINKED (GLCNAC. . .) (POTENTIAL).

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CC	or send an email to license@sib-sib.ch).
CC	-----
DR	EMBL: U31554: AAA86120.1: -
DR	InterPro: IPR003006; Ig_MHC.
DR	InterPro: IPR003598; Ig_c2.
DR	InterPro: IPR003600; Ig_like.
DR	Pfam: PF00047; Ig: 3.
DR	SMART: SM00410; Ig-like: 1.
DR	SMART: SM00408; IGC2: 2.
KM	Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;
KM	Repeat; Signal.
FT	CHAIN 1 28
FT	CHAIN 29 315
FT	PROPEP 316 338
FT	DOMAIN 46 118
FT	DOMAIN 146 204
FT	232 297
FT	DISULFID 53 111
FT	DISULFID 153 197
FT	DISULFID 239 290
FT	CARBOHYD 40 40
FT	CARBOHYD 66 66
FT	CARBOHYD 136 136
FT	CARBOHYD 148 148
FT	CARBOHYD 279 279
FT	CARBOHYD 287 287
FT	CARBOHYD 300 300
FT	CARBOHYD 315 315
FT	LIPID 315 315
SO	SEQUENCE 338 AA; 37324 MW; 0876AFDD68A39B86 CRC64;
Query Match	51.3%; Score 926.5; DB 1; Length 338;
Best Local Similarity	55.1%; Pred. No. 1.5e-67;
Matches 119;	Conservative 60; Mismatches 81; Indels 5; Gaps 4;
QY	20 LAALCLF-QGVPSVSGDAPFPKAMDVTYVROGESATLRCTIDNRKTRVAMLNSTLLIYAG 78
DB	17 LRLICLLEPLFGVPSVD--FNRGTDITVRYOGDAIILRCVDEKSKVAMLNRSGLIFAG 74
QY	79 NDKWMSIDPRVYLLSNTOQYSTEIQWVDVYDEGPTSTYQTDNHRPTSVYHLIYVSPKI 138
DB	75 HDKMSIDPRVELEKRAHLESLRIQWVDYDVGSTQTSVQTDHEPTSVYLIYQVPPKI 134
QY	139 VEISDSINSGNNISLTCATRGPRPTVYTHHISPRAFVSEDEYELIOGIREQSGD 198
DB	135 SNISDVYVNEGSSNVLTVCMANGRPREVATYRHLPLRGREFEGEREYELIIGIREQSGK 194
QY	199 YEEASANDYAPVRYRKRYVTNVPRIISANGTVPGVQKGLQCSAASVSAEPQWYKD 258
DB	195 YEKKAANNESSADYQVYKVTNVPRIITERSKNATTPGASLCKASAVPPAPDFEYWRD 254
QY	259 DKELIGKKGVKAVENRPFSLKLLFFVNSVSHDYGVTCAVSNKLGHTNASTIMFGPQVSE 318
DB	255 DTR-INSANGLEISTEGQSLTVTNVFEHNGVNTCVAAANKGVTNASTVLEFRSGVRG 313
QY	319 VSNGISRRAGCVMLPLVLAHLK 343
DB	314 I-NGSISLAVPLMLASIFCLSK 337
RESULT 10	
KILO_RAT	STANDARD; PRT; 348 AA.
AC Q9Z008;	
DT 30-MAY-2000 (Rel. 39, Created)	
DT 30-MAY-2000 (Rel. 39, Last sequence update)	

QY 188 IGGIIRREGSDGYCQASNDVAPVRRVKVTVNPPYITSEAKGTGVPQNGQITQCCASA 247
Db 184 IIGIRIDDAAGYBDCSASNDVSPVKKVRVVPAPFATQIEKSGYTPGRSLIRCEGAA 243
QY 248 VPSAFQWYKQDRIIRLEGGKGVKVENPFSLKILFFNVSEHDGNTVCASNKLGHTNAS 307
Db 244 VPPPAFEMWYKGRKLPNGGGIITQNTSTISITVYNTQGHGNTCTCAANKLGTNNAS 303
QY 308 IMLFPGAVSEVSGNSRRACGWLPLDLYLHLLKLF 344
Db 304 LPLNPSTAGYGTGSCADLFSCSWLALITSSVISIF 340
RESULT 11
ANAL.DROME STANDARD: PRT; 333 AA.
AC PI5364; Q9V3A5;
DT 01-APR-1990 (Rel. 14, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 01-MAR-2002 (Rel. 41, Last annotation update)
DE Amalgam protein precursor
GN AMA OR BG:DS00276.6 OR CG2198.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tarsopoda; Hexapoda; Insecta;
CC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophillidae; Drosophila.
CX NCBI_taxid=7227;
RN [1]
RP SEQUENCE FROM N.A.
RP STRAIN=OREGON-R;
RC MEDLINE=89028670; PubMed=3141062;
RX Seeger M.A., Halfley L., Kaufman T.C.;
RT "Characterization of amalgam: a member of the immunoglobulin
RT superfamily from Drosophila".
RL Cell 55:589-600(1988).
RN [2]
RP SEQUENCE FROM N.A.
RP STRAIN=BERKELEY;
RC Gelinkner S.E., Pfeiffer B.D., Knafels J., Martin C.H., Mayeda C.A.,
RA Palazzolo M.J.;
RT "Complete sequence of the Antennapedia complex of Drosophila".
RL Submitted (JAN-1999) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RC MEDLINE=BERKELEY;
RC MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Ananthites P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Tangell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H., Blazer R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Arail J.F., Aghayani A., An H.-D., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Benson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotlier P.,
RA Burris K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup I.E., Downes M., Dugan-Sheoa S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Foster C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodde A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibeagwan C.,
RA Jialal M., Kalush F., Karen G.H., Ke Z., Kenison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lascko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mettel B., Meinhosh T.C., McLeod M.P., McPherson D.,
RA Merklow G., Mishina N.V., Mobarry C., Morris D., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacler J.M.,

RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Massarman D.A., Weinstein D.A., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,
RT "The genome sequence of *Drosophila melanogaster*."
RL Science 287:2185-2195(2000).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN-Berkeley; TISSUE-Embryo;
RA Stapleton M., Brokstein P., Hong L., Agdeyani A., Carlson J.,
RA Champe W., Chavez C., Dorsett V., Farfan D., Fries E., George R.,
RA Gonzalez M., Guarin H., Li P., Liao G., Miranda A., Mungall C.J.,
RA Munoz J., Pacleb J., Paragas V., Park S., Phouanavong S., Wan K.,
RA Yu C., Lewis S.E., Rubin G.M., Celisner S.,
RL Submitted (Aug-2001) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: ATTACHED TO THE MEMBRANE BY A GPI-ANCHOR
CC -1- (POSSIBLE).
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -1- SIMILARITY: CONTAINS 1 IMMUNOGLOBULIN-LIKE V-TYPE DOMAIN.
CC -1- SIMILARITY: CONTAINS 2 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -----
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CC -----
DR EMBL: M23561; AAA28367.1; -
DR EMBL: AE001572; AAD19797.1; -
DR EMBL: AE003674; AAF54084.1; -
DR EMBL: AY051911; AAK3335.1; -
DR PIR: A31923; A31923
DR FLYBase; Fggn0000071; Ama.
DR InterPro: IPR003599; Ig.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003598; Ig_C2.
DR Pfam: PF00047; Ig; 3.
DR SMART: SM00410; Ig_Like; 1.
DR SMART: SM00408; IGC2; 2.
KM Immunoglobulin domain; Glycoprotein; GPI-anchor; Signal; Repeat.
FT SIGNAL 1 23
FT CHAIN ?
FT PROPEP ? 333
FT DOMAIN 39 127
FT DOMAIN 154 215
FT DOMAIN 244 314
FT DISULFID 46 117
FT DISULFID 161 208
FT DISULFID 251 307
FT CARBOHYD 45 45
FT CARBOHYD 86 86
FT CARBOHYD 308 308
FT CONFLICT 83 83
SQ SEQUENCE 333 AA; 36387 MW; F644753DE3DB25F1 CRC64;
Query Match 16.58; Score 297.5; DB 1; Length 333;
Best Local Similarity 29.78; Pred. No. 7,9e-17;
Matches 87; Conservative 43; Mismatches 136; Indels 27; Gaps 11;
OY 44 NVTYRGESATLCTIDN-RVTRAVMLR-----STITAGNDKMCIDPR--VYLLSN 93
DB 33 DYVASGDSVEENCIVEVQGLSYSAKRSSESDTNSVLSKRNILSPDQRINVTYVTS 92
OY 94 TQTD---YSIEIQNDVYDESPYTCGVQTDNHPK-TSRVHLIVQVSRIKE-ISSDISIN 148

DB 93 PKTGSATYTRIONIEVSMGPEQVLYSATETKYTKSLIDIKPPYIAANTPKSTLY 152
OY 149 EGNNSITCTIATGCPPEVYTWHR-----ISPRANGVSEDEYLEIGITREGSGDYECSS 204
DB 153 EGNLEITCTHANGFPKPTISMAKEHNAVMP-AGSHLLAPPTLRISVRMDRGGYCIAQ 211
OY 205 NDVAAPVRYRYKTVVYPPYIS-EAKGIVPVQOKGTCCESANVPSAEFQWYDKRLL 263
DB 212 NGEGQPKRLIRVEEFPQIAVQPKIAQVSHSAELCCSVQGYPAFTVYHKNVPL- 270
OY 264 EGKGVKVEKR-----PFLSKLIFPNVSEHDYGNVCVANSKLGHTNSIMLF 311
DB 271 QSSRHHEVNTATSSSTTTSVLRIDSVGEEDPFGDYCNATNKLGHADRLHLF 323
RESULT 12
ID NCA2_MOUSE STANDARD; PRT; 725 AA.
AC P13594; 061950;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-JAN-1990 (Rel. 13, Last sequence update)
DT 01-MAR-2002 (Rel. 41, Last annotation update)
DE Neutral cell adhesion molecule, phosphatidylinositol-linked isoform
DE precursor (N-CAM 120) (NCAM-120).
GN NCAM1 OR NCAM.
OS Mus musculus (mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxId=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-C57BL/6;
RX MEDLINE=87246524; PubMed=3595563;
RA Barthele D., Santoni M.-J., Wille W., Ruppert C., Calix J.-C.,
RA Hirsch M.-R., Fontecilla-Camps J.-C., Goridis C.,
RT "Isolation and nucleotide sequence of mouse NCAM cDNA that codes for
RT a Mr 79,000 polypeptide without a membrane-spanning region.";
RL EMBO J. 6:907-914(1987).
RN [2]
RP SEQUENCE OF 20-700 FROM N.A.
RC STRAIN-C57BL/6; TISSUE=brain;
RX MEDLINE=89251563; PubMed=2721486;
RA Santoni M.J., Barthele D., Yoppe G., Boned A., Goridis C., Wille M.,
RT "Differential exon usage involving an unusual splicing mechanism
RT generates at least eight types of NCAM cDNA in mouse brain.";
RL EMBO J. 8:385-392(1989).
RN [3]
RP SEQUENCE OF 642-725 FROM N.A.
RX MEDLINE=88283628; PubMed=3396534;
RA Barbas J.A., Chaix J.C., Steinmetz M., Goridis C.,
RT "Differential splicing and alternative polyadenylation generates
RT distinct NCAM transcripts and proteins in the mouse.";
RL EMBO J. 7:625-632(1988).
RN [4]
RP SEQUENCE OF 20-36.
RX MEDLINE=86140120; PubMed=3512556;
RA Rougon G., Marshak D.R.,
RT "Structural and immunological characterization of the amino-terminal
RT domain of mammalian neural cell adhesion molecules.";
RL J. Biol. Chem. 261:3396-3401(1986).
CC -1- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN
CC NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF
CC NEURITES, ETC.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -1- ALTERNATIVE PRODUCTS: THE DIFFERENT TISSUE-SPECIFIC FORMS OF
CC N-CAM ARE PRODUCED BY ALTERNATIVE SPLICING.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -1- SIMILARITY: CONTAINS 5 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -1- SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -

[illegible]

CC -1- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN
CC NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF
CC NEURITES, ETC.
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- ALTERNATIVE PRODUCTS: THE DIFFERENT TISSUE-SPECIFIC FORMS OF
CC N-CAM ARE PRODUCED BY ALTERNATIVE SPLICING.
CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
CC -1- SIMILARITY: CONTAINS 5 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.
CC -1- SIMILARITY: CONTAINS 2 FIBRONECTIN TYPE III-LIKE DOMAINS.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL, outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
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CC or send an email to license@isb-sib.ch).

[illegible]

Query Match	15.5%	Score 279.5	DB 1	Length 1091
Best Local Similarity	26.0%	Pred. No. 1.e-14		
Matches 78	Conservative 52	Mismatches 131	Indels 39	Gaps 9
QY	VRSGDATTFRKAMDVTVRGESATLECTITDNNVTRVAMLRSLITLAGMDKCLDPVYL	90		
Db	214 VRAKSTMT-----NATANLSQSTVTLCDADG-----PEPPTM-----TWKDGEPTE	255		
QY	91 LSNMOTQYSIE-----IQNVVYDEGPTGYSQVOTDNHKTGRVHLIVQSPKIVEISS	143		
Db	256 QEDNEKKSFNVDSESLIKKVDKSDSEAFYICIAENKAGQDATTILKTYFAKPKITTYEN	315		
QY	144 DISINEGNNISLCTIATGRPEPTVTV---RHISPKAV--GFVSEDEYLEIQITREO-	195		
Db	316 KTMATELDQITLTCEASGDPISITMKTSTINISEKRTLDGRIYVSRHIAVSSLLIKEL	375		
QY	196 ----SODECCASNDVAAPYRRKVTYNNPYPTISEAKTGVPVGQKGLTQCEASAVPSA	251		
Db	376 QYTDAGEEYVCASNTIGOD--SQAMTLEVOYAPKLOGGVAVAYTVEGNOVITCEYFAVPSA	434		
QY	252 EFGWAKDKDKRIIEKG-KGVKVEBPRLSKLIEFNVSHDQGNVTYASAKKLGHNASIML	310		
Db	435 VISMREDQQLPSSNYSNIKITINTPSALILEVTPDSENDGNGCTAAVNRIGQSSSEFHL	494		

SEQ	SEQUENCE	358 AA;	94658 MW;	EA1064ADA050F6 CRR64;
FT	DISULFID	139	189	BY SIMILARITY.
FT	DISULFID	235	288	BY SIMILARITY.
FT	DISULFID	330	396	BY SIMILARITY.
FT	DISULFID	437	490	BY SIMILARITY.
FT	CARBOHYD	222	222	N-LINKED (GLCNAC. . .)
FT	CARBOHYD	316	316	N-LINKED (GLCNAC. . .)
FT	CARBOHYD	348	348	N-LINKED (GLCNAC. . .)
FT	CARBOHYD	434	434	N-LINKED (GLCNAC. . .)
FT	CARBOHYD	460	460	N-LINKED (GLCNAC. . .)
FT	CARBOHYD	489	489	N-LINKED (GLCNAC. . .)
SO	SEQUENCE	358 AA;	94658 MW;	EA1064ADA050F6 CRR64;

Query Match	15.4%;	Score 277.5;	DB 1;	Length 858;
Best Local Similarity	25.5%;	Pred. No. 1.2e-14;		
Matches	75;	Conservative	50;	Mismatches 132;
			Indels	37;
			Gaps	7;

QY 44 NTVHOGESATLECTIDN-RTYRAMLNIRSTILYAONDKWOLDBRVLLNSTOTQYSIEI 102Z
D 222 NATALGGSVYLWCDDGDFPEPTMSMTKDEPIENBEE---DDEKHITSDDSSSE--LTI 275Z
QY 103 QAVDADYDEGPATOSVOTDNDHPTBSRYHLIYQVSPKRIVEISSDITINGNISILCTQIAGR 162Z
D 276 RAVDNDDEAEVYCIANKAGDEDDASHLKYFAKPRTTYENQZMETELBEDYLTITBAGD 335Z
QY 163 PEPTVTKR-----HISPAVGVSEDEHYELIGITREDSG 197Z
D 336 PIPSTISWTSTIRNISSEKASWTRPEKQETLDDHMYVSHRVS--LITLSIDYTDAG 392Z
QY 198 DYCASNDVAAYVRVRYVWYVNPYPTISAKGTGVPAGOGTGLCCASAVSAFQWY 257Z
D 393 EICIASNTIGQP-QSGMILEYQAPKLOGPAAVYTWBGNQVNTICVYRHSATISMR 451Z
QY 258 DDKRLIEBK-KGVYVENDREPLSLKLIFFNVSEHDYGNITCVASNLGHTNASTML 310Z
D 452 DCOLLPSNYSNRIKINPFSASYLEWYPPDESDNFGMYNCTAVNIGESLEPII 505Z

Search completed: July 12, 2002, 00:45:52
Job time: 650 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: July 12, 2002, 00:33:42 ; Search time 133.38 Seconds
(without alignments)
446.171 Million cell updates/sec

Title: US-09-700-397-3

Sequence: 1 MKTIQPMHNSISWALFTGL.....RRAGCVLLPLVLHLKLF 344

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 562222 seqs, 172994929 residues

Total number of hits satisfying chosen parameters: 562222

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_ornanelle:*
9: sp_plant:*
10: sp_plant:*
11: sp_ricent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriophage:*
17: sp_archaea:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	ID	Description
1	1665.5	92.2	344	Q9P121	Q9P121 homo sapien
2	1616.5	89.5	344	Q9P121	Q9P121 mus musculu
3	1428	79.1	313	Q57596	Q57596 gallus gall
4	1427.5	79.0	344	Q93242	Q93242 gallus gall
5	1357.5	75.2	315	Q9D615	Q9D615 gallus gall
6	1275.5	70.6	344	Q9D615	Q9D615 gallus gall
7	946	52.4	334	Q02870	Q02870 gallus gall
8	930.5	51.5	350	Q02869	Q02869 gallus gall
9	842	46.6	352	Q9W6V2	Q9W6V2 gallus gall
10	599	33.2	261	Q9W6V1	Q9W6V1 gallus gall
11	338.5	18.7	413	Q9VAR6	Q9VAR6 drosophila
12	333	18.4	315	Q9VAR2	Q9VAR2 drosophila
13	308.5	17.1	528	P91670	P91670 drosophila
14	306	16.9	545	Q9VCT4	Q9VCT4 drosophila
15	290.5	16.1	2673	Q96SC3	Q96SC3 homo sapien
16	290.5	16.1	5636	Q96RW7	Q96RW7 homo sapien

17	287	15.9	846	13	Q57577	Q57577 cynops pyr
18	287	15.9	1100	13	Q57576	Q57576 cynops pyr
19	285.5	15.8	603	5	Q9KPE5	Q9KPE5 drosophila
20	284.5	15.8	467	5	Q9VP08	Q9VP08 drosophila
21	282.5	15.6	605	11	Q921P2	Q921P2 mus musculu
22	279.5	15.5	725	13	Q73633	Q73633 xenopus lae
23	278.5	15.4	4162	13	Q98918	Q98918 gallus gall
24	273.5	15.1	725	13	Q73634	Q73634 xenopus lae
25	272.5	15.1	1323	13	Q08476	Q08476 gallus gall
26	269.5	14.9	484	5	Q26475	Q26475 schistocerc
27	268.5	14.9	1456	4	Q92626	Q92626 homo sapien
28	265	14.7	1482	5	Q94Y0	Q94Y0 drosophila
29	261	14.5	1031	13	Q90YW2	Q90YW2 brachydanto
30	261	14.5	1395	5	Q44924	Q44924 drosophila
31	260.5	14.4	496	5	Q9W260	Q9W260 drosophila
32	260.5	14.4	500	5	Q9X2B7	Q9X2B7 drosophila
33	260.5	14.4	500	5	Q961W0	Q961W0 drosophila
34	260	14.4	604	4	Q96CJ3	Q96CJ3 homo sapien
35	260	14.4	1395	5	Q9W213	Q9W213 drosophila
36	259	14.3	7962	4	Q10465	Q10465 homo sapien
37	255.5	14.1	838	13	Q90YW1	Q90YW1 brachydanto
38	255	14.1	359	5	Q9Y6C2	Q9Y6C2 drosophila
39	254.5	14.1	5188	5	Q76518	Q76518 caenorhabd
40	250.5	13.9	885	5	Q9VP26	Q9VP26 drosophila
41	250.5	13.9	1342	5	Q9GPP6	Q9GPP6 drosophila
42	250	13.8	795	13	Q90YW0	Q90YW0 brachydanto
43	248	13.7	467	5	Q9VMN7	Q9VMN7 drosophila
44	245.5	13.6	1065	4	Q94898	Q94898 homo sapien
45	244.5	13.5	512	4	Q96DWB	Q96DWB homo sapien

ALIGNMENTS

RESULT 1
Q9P121 PRELIMINARY; PRT; 344 AA.
ID Q9P121;
AC Q9P121;
DT 01-OCT-2000 (TREMblrel. 15, Created)
DT 01-OCT-2000 (TREMblrel. 15, Last annotation update)
DT 01-DEC-2001 (TREMblrel. 19, Last annotation update)
DE NEUTROTIRIMIN.
GN HNT.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Li G., Jin J., Tan X., Hu S., Yuan J., Qiang B.;
RT "Cloning and identification of human neutrotirimin full length cDNA."
RL Submitted (FEB-1999) to the EMBL/GenBank/DBS databases.
DR EMBL: AF126426; AAF37591.1; -
DR InterPro: IPR003598; I9_C2.
DR InterPro: IPR003600; I9_Like.
DR InterPro: IPR003006; I9_MHC.
DR Pfam: PF000647; I9_3.
DR SMART: SM00408; I9C2: 2.
DR SMART: SM00410; I9_Like: 1.
KW Immunoglobulin domain.
SQ SEQUENCE 344 AA; 37971 MW; DA4D12C295ABBE3A CRC64;

Query Match 92.2%; Score 1665.5; DB 4; Length 344;
Best Local Similarity 95.2%; Pred. No. 7.4e-138;
Matches 320; Conservative 3; Mismatches 10; Indels 3; Gaps 1;

QY 12 ISMAIFGLALCLF---OGVPRSGATPEPKADNVTYRQGSATLCTGTDNRYTRAW 68
DB 9 LPWKCIWVLRRLFLVPGVYRSGDITPEKADNVTYRQGSATLCTGTDNRYTRAW 68
QY 69 LNSTIYAGNDKWCIDPEYVLLSNTOYQSIETQNDVYDRGPTGCSYQTDNHPKTSRV 128
|||||


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Db 69 LNRSTLLAGNDKWCIDPRVLLSNTOGYSTIEIONDVYDEGPTCSQVTDNHRKTSRV 128
QY 129 HLIVYSPKIVEISSDISINEGNNISLTCTIATGREPTVYWRHSIPKAVGFSDEBYLETI 188
Db 129 HLIVYSPKIVEISSDISINEGNNISLTCTIATGREPTVYWRHSIPKAVGFSDEBYLETI 188
QY 189 QGITREOSGDYECASNDVAAPVRRVRYVYPPYISEAKGTGVPGVQKGLTQCEASAV 248
Db 189 QGITREOSGDYECASNDVAAPVRRVRYVYPPYISEAKGTGVPGVQKGLTQCEASAV 248
QY 249 PSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHTNASI 308
Db 249 PSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHTNASI 308
QY 309 MLEFGAVSEVNGTSRRACQWLLPLVLHLLKLF 344
Db 309 MLEFGAVSEVNGTSRRACQWLLPLVLHLLKLF 344

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RESULT 2
Q99PJ0 PRELIMINARY: PRT: 344 AA.
AC 099PJ0:
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE NEURORTRIMIN.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxId=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=ICR; TISSUE=BRAIN;
RA Kim T.H., Choi S.C., Kim J., Jeon J.W., Kim K.D., Lee S.H.;
RT Cloning and expression of mouse neurotrophin gene in the developing
RT nervous system.
RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF282980; AAK0276.1; -
DR InterPro: IPR003599; Ig_
DR InterPro: IPR003598; Ig_C2.
DR InterPro: IPR003600; Ig_Like.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig_3.
DR SMART; SM00409; Ig; 3.
DR SMART; SM00408; IgC2; 3.
DR SMART; SM00410; Ig_Like; 2.
KW Immunoglobulin domain.
SQ SEQUENCE 344 AA; 37924 MW; 3EC6D5EB6C5C17D CRC64;

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Query Match 89.5%; Score 1616.5; DB 11; Length 344;
 Best local Similarity 91.7%; Pred. No. 15e-133;
 Matches 308; Conservative 9; Mismatches 16; Indels 3; Gaps 1;

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QY 12 ISMAIFGTALCLF--QGVYRSGDATFPKANDNTYRQGESATLRCTIDNRYTRVAM 68
Db 9 LPMKLVVYSLRLFLVPTGVYRSGDATFPKANDNTYRQGESATLRCTIDNRYTRVAM 68
QY 69 LNRSTLLAGNDKWCIDPRVLLSNTOGYSTIEIONDVYDEGPTCSQVTDNHRKTSRV 128
Db 69 LNRSTLLAGNDKWCIDPRVLLSNTOGYSTIEIONDVYDEGPTCSQVTDNHRKTSRV 128
QY 129 HLIVYSPKIVEISSDISINEGNNISLTCTIATGREPTVYWRHSIPKAVGFSDEBYLETI 188
Db 129 HLIVYSPKIVEISSDISINEGNNISLTCTIATGREPTVYWRHSIPKAVGFSDEBYLETI 188
QY 189 QGITREOSGDYECASNDVAAPVRRVRYVYPPYISEAKGTGVPGVQKGLTQCEASAV 248
Db 189 QGITREOSGDYECASNDVAAPVRRVRYVYPPYISEAKGTGVPGVQKGLTQCEASAV 248
QY 249 PSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHTNASI 308
Db 249 PSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHTNASI 308

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Db 249 PSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHTNASI 308
QY 309 MLEFGAVSEVNGTSRRACQWLLPLVLHLLKLF 344
Db 309 MLEFGAVSEVNGTSRRACQWLLPLVLHLLKLF 344

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RESULT 3
ID 057596 PRELIMINARY: PRT: 313 AA.
AC 057596:
DT 01-JUN-1998 (TREMBlrel. 06, Created)
DT 01-JUN-1998 (TREMBlrel. 06, Last sequence update)
DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE NEURL SECRETED GLYCOPROTEIN (CEPU-SE ALPHA 2 ISOFORM).
CN CEPU OR CEPU-SE.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxId=9031;
RN [1]
RP SEQUENCE FROM N.A.
RA Kim D., Moss D.J.;
RT Submitted (FEB-1998) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=BRAIN;
RA Lodge A.P., McNamee C.J., Howard M.R., Reed J.E., Moss D.J.;
RT Characterisation of CEPU-Se, a secreted isoform of the IgLON family
RT protein CEPU-1.
RL Submitted (AUG-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AJ225897; CAA12649.1; -
DR EMBL; AF292935; AAG01878.1; -
DR InterPro: IPR003598; Ig_Like.
DR InterPro: IPR003600; Ig_C2.
DR Pfam: PF00047; Ig; 3.
DR SMART; SM00408; IgC2; 2.
DR SMART; SM00410; Ig_Like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 313 AA; 34482 MW; 99AD825CAEA547 CRC64;

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Query Match 79.1%; Score 1428; DB 13; Length 313;
 Best local Similarity 85.4%; Pred. No. 4.4e-117;
 Matches 263; Conservative 27; Mismatches 18; Indels 0; Gaps 0;

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QY 5 QPKMHSISMAIFGTALCLFQGVYRSGDATFPKANDNTYRQGESATLRCTIDNRYT 64
Db 3 QAKMGHPYSWVIFAGMALLRFGYVYRSGDATFPKANDNTYRQGESATLRCTIDNRYT 62
QY 65 RVAMLNRSTLLAGNDKWCIDPRVLLSNTOGYSTIEIONDVYDEGPTCSQVTDNHRK 124
Db 63 RVAMLNRSTLLAGNDKWCIDPRVLLSNTOGYSTIEIONDVYDEGPTCSQVTDNHRK 122
QY 125 TSVRHLYOVSPKIVEISSDISINEGNNISLTCTIATGREPTVYWRHSIPKAVGFSDE 184
Db 123 TSVRHLYOVSPKIVEISSDISINEGNNISLTCTIATGREPTVYWRHSIPKAVGFSDE 182
QY 185 YLEIGITREOSGDYECASNDVAAPVRRVRYVYPPYISEAKGTGVPGVQKGLTQCE 244
Db 183 YLEIGITREOSGDYECASNDVAAPVRRVRYVYPPYISDAKSTGVPGVQKGLTQCE 242
QY 245 ASAVPSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHT 304
Db 243 ASAVPSAEFQWYKDKRLIEGKKGKGVENRPFSLKIFPNVSEHDYGNVTCVANSKLGHT 302
QY 305 NASIMLFG 312
Db 303 NASIMLFG 310

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RESULT	4			
093242				
ID	093242;	PRELIMINARY;	PRT;	344 AA.
AC	093242;			
DT	01-NOV-1998 (TrEMBLrel. 08, Created)			
DT	01-NOV-1998 (TrEMBLrel. 08, Last sequence update)			
DT	01-DEC-2001 (TrEMBLrel. 19, Last annotation update)			
DE	CEPU-1.			
OS	Gallus gallus (Chicken).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Achoosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;			
OC	Gallus.			
OX	NCBI_TaxID=9031;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	Kimura Y., Shirabe K., Fukushima M., Takeshita M., Tanaka H.;			
RT	CEPU-1: an Immunoglobulin Superfamily Molecule, Has Cell Adhesion			
RT	Activity and Shows Dynamic Expression Patterns in Chick Embryonic			
RT	Spinal Cord.";			
RL	Submitted (MAR-1998) to the EMBL/GenBank/DBJ databases.			
DR	EMBL: AB011810; BAA31514.1; .			
DR	InterPro: IPR003598; I9_C2.			
DR	InterPro: IPR003600; I9_L1ke.			
DR	InterPro: IPR003006; I9_MHC.			
DR	Pfam: PF00047; I9_3.			
DR	SMART: SM00408; I9C2; 2.			
DR	SMART: SM00410; I9_L1ke; 1.			
KW	Immunoglobulin domain.			
SQ	SEQUENCE	344 AA; 37613 MW; 22CAABF526AB57E CRC64;		

Query Match	79.0%;	Score 1427.5;	DB 13;	Length 344;
Best Local Similarity	79.2%;	Pred. No. 5.5e-117;		
Matches 267;	Conservative 31;	Mismatches 36;	Indels 3;	Gaps 1;

[illegible]

RESULT	5	
Q9DG15		
ID	Q9DG15	PRELIMINARY; PRT; 315 AA.
AC	Q9DG15;	
DT	01-MAR-2001 (TREMBLrel. 16, Created)	
DT	01-MAR-2001 (TREMBLrel. 16, last sequence update)	
DE	01-DEC-2001 (TREMBLrel. 19, last annotation update)	
CEPU	SE ALPHA 1 ISOFORM.	
GN	CEPU-SE.	
OS	Gallus gallus (Chicken).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Archosauaria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;	
OC	Gallus.	

OX	[1]	NB1_TaxID=9031;	
RN			
RP		SPSOURCE FROM N.A.	
RC		TISSUE=BRAIN;	
RA		Lodge A.P., McNamee C.J., Howard M.R., Reed J.E., Moss D.J.;	
RT		"Characterisation of CEPU-Se, a secreted isoform of the Iglon family	
RT		protein CEPU-1.";	
RL		Submitted (AUG-2000) to the EMBL/GenBank/DDb databases.	
DR		EMBL: AF292936; AAC01879.1;	
DR		InterPro: IPR003599; Ig_	
DR		InterPro; IPR003598; Ig_2.	
DR		InterPro; IPR003600; Ig_1like.	
DR		InterPro; IPR003006; Ig_MHC.	
DR		Pfam: PF00047; Ig; 3.	
DR		SMART: SMO0409; Ig; 3.	
DR		SMART: SMO0408; IgC2; 3.	
DR		SMART: SMO0410; Ig_1like; 2.	
KW		Immunoglobulin domain	
SQ		SEQUENCE 315 AA; 34606 MW; 66C5D27F0DDC6FB2 CRC64;	

Query Match	75.2%;	Score 1357.5;	DB 13;	Length 315;
Best Local Similarity	83.0%;	Pred. No. 6.7e-111;		
Matches 253;	Conservative	26;	Mismatches 23;	Indels 3;
				Gaps 1;

QY	11	SI\$A\$IFG\$LAALCE\$--\$OGVP\$RS\$D\$AT\$EP\$K\$M\$D\$N\$T\$V\$Q\$S\$A\$T\$E\$C\$T\$D\$N\$K\$V\$R\$V\$A	67
Db	8	ALP\$M\$C\$L\$V\$T\$C\$L\$AL\$LE\$V\$P\$A\$G\$V\$P\$R\$S\$D\$AT\$EP\$K\$M\$D\$N\$T\$V\$Q\$S\$A\$T\$E\$C\$T\$D\$N\$K\$V\$R\$V\$A	67
QY	68	W\$N\$R\$S\$T\$I\$V\$A\$G\$N\$D\$K\$W\$C\$D\$E\$P\$R\$V\$U\$LL\$S\$N\$T\$O\$T\$O\$Y\$S\$T\$E\$I\$O\$N\$D\$V\$Y\$E\$G\$P\$Y\$T\$C\$S\$V\$O\$T\$D\$N\$H\$P\$K\$T\$R	127
Db	68	W\$N\$R\$S\$T\$I\$V\$A\$G\$N\$D\$K\$W\$C\$D\$E\$P\$R\$V\$U\$LL\$S\$N\$T\$O\$T\$O\$Y\$S\$T\$E\$I\$O\$H\$D\$V\$D\$E\$P\$Y\$C\$S\$V\$O\$T\$D\$N\$H\$P\$K\$T\$R	127
QY	128	V\$H\$I\$V\$O\$S\$P\$K\$T\$I\$E\$S\$D\$S\$I\$N\$E\$G\$N\$N\$I\$S\$T\$C\$T\$O\$A\$G\$R\$E\$P\$T\$W\$R\$H\$S\$P\$K\$A\$V\$G\$S\$E\$D\$E\$T\$E	187
Db	128	V\$H\$I\$V\$O\$S\$P\$K\$T\$I\$E\$S\$D\$S\$I\$N\$E\$G\$N\$V\$S\$T\$C\$T\$O\$A\$G\$R\$D\$P\$T\$I\$W\$R\$H\$S\$P\$K\$A\$V\$G\$S\$E\$D\$E\$T\$E	187
QY	188	I\$G\$T\$R\$E\$G\$S\$D\$Y\$T\$C\$S\$A\$N\$D\$V\$A\$P\$V\$R\$K\$V\$Y\$V\$N\$P\$P\$Y\$T\$S\$E\$A\$K\$G\$T\$G\$V\$P\$Q\$K\$G\$T\$O\$C\$E\$A\$S\$A	247
Db	188	I\$G\$T\$R\$E\$D\$S\$E\$Y\$T\$C\$S\$A\$N\$D\$V\$A\$P\$V\$O\$R\$K\$V\$Y\$V\$N\$P\$P\$Y\$T\$S\$D\$A\$K\$S\$T\$G\$V\$P\$Q\$K\$S\$I\$M\$C\$E\$A\$S\$A	247
QY	248	V\$S\$A\$P\$O\$M\$Y\$D\$D\$K\$R\$L\$E\$G\$K\$G\$K\$V\$K\$E\$N\$P\$P\$S\$T\$I\$F\$P\$N\$S\$E\$A\$D\$Y\$C\$N\$T\$Y\$C\$A\$S\$K\$L\$H\$T\$M\$A\$S	307
Db	248	V\$S\$A\$P\$O\$M\$Y\$D\$D\$K\$R\$L\$E\$G\$K\$G\$K\$V\$K\$E\$N\$A\$F\$P\$S\$T\$I\$F\$P\$N\$S\$E\$D\$Y\$C\$N\$T\$Y\$C\$A\$S\$K\$Q\$J\$O\$N\$T\$M\$A\$S	307
QY	308	IM\$E\$G\$312	
Db	308	MI\$E\$G\$312	

RESULT	6
ID	Q9DF61
AC	Q9DF61; PRELIMINARY; PRT; 344 AA.
DT	01-MAR-2001 (TREMBLrel. 16, Created)
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT	01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE	OBSCAM ALPHA 1 ISOFORM.
GN	OBSCAM.
OS	Gallus gallus (Chicken).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC	Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC	Gallus.
OX	NCBI_TaxID=9031;
RN	[1]
RP	SEQUENCE FROM N.A.
RC	TISSUE=BRIN;
RX	MEDLINE=20499204; Pubmed=11042360;
RA	Lodge A.P., Howard M.R., McNamee C.J., Moss D.J.;
RT	"Co-localisation, heterophilic interactions and regulated expression
RL	of iglon family proteins in the chick nervous system.";
EMBL	AF292934; AAG01877.1; -.

DR InterPro: IPR003599; I9.
 DR InterPro: IPR003598; I9_C2.
 DR InterPro: IPR003600; I9_Like.
 DR InterPro: IPR003006; I9_MHC.
 DR Pfam: PF00047; I9; 3.
 DR SMART: SM00409; I9; 3.
 DR SMART: SM00408; I9C2; 3.
 DR SMART: SM00410; I9_Like; 2.
 DR Immunoglobulin domain.
 SQ SEQUENCE 344 AA; 37531 MW; 37FE6051CBF0E7B4 CRC64;

Query Match 70.6%; Score 1275.5; DB 13; Length 344;
 Best Local Similarity 72.8%; Pred. No. 1.2e-103;
 Matches 246; Conservative 32; Mismatches 53; Indels 7; Gaps 3;

QY 12 ISMAIFGLAALCLF---GGVPRSGDATFPKAMDNTVYRQGESATLCTIDNNTVYAM 68
 DB 9 LPMCLVVLCLRLFLVAGVPRSGDATFPKAMDNTVYRQGESATLCTIDNNTVYAM 68
 QY 69 LNRSTILYAGNDKMLDPRVYLLNSLTQYSEIOWNDVYDGPYTCVQTDNHPKTSRY 128
 DB 69 LNRSTILYAGNDKMSIDNRYLLNSLTQYSEIOWNDVYDGPYTCVQTDNHPKTSRY 128
 QY 129 HLIVQSPKIVEISSDISINGNISLTCTATGRPEPTVYWHISPKAVGVSDEYLEI 188
 DB 129 HLIVQSPKIVEISSDISINGNISLTCTATGRPEPTVYWHISPKAVGVSDEYLEI 188
 QY 189 QGITREOSGEYECSSANDVAPVYRKYVYVNPYISAKGTGVPYQKGLQCEASVAP 248
 DB 189 TGITREOSGEYECSSANDVAPVYRKYVYVNPYISAKGTGVPYQKGLQCEASVAP 248
 QY 249 PSAEFQWYKDKRLIEGKKGVKVENRPFSLKLFVNSEHDYNTCVASNKLGHTNAST 308
 DB 249 PSAEFQWYKDKRLIEGKKGVKVENRPFSLKLFVNSEHDYNTCVASNKLGHTNAST 308
 QY 309 MLFPGAVSEVSNSTGSRRAAG--CWMLPLVYLHLK 344
 DB 309 ILVPGAVHDGSGMAASRAAGLCLW--ATLILRLIDF 344

RESULT 7
 ID 002870 PRELIMINARY: PRT; 334 AA.
 AC 002870;
 DT 01-JUL-1997 (TREMBLrel. 04, Created)
 DT 01-JUL-1997 (TREMBLrel. 04, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE CHLAMP, G9-ISOFORM PRECURSOR.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRAIN;
 RX MEDLINE=97358596; PubMed=9215692;
 RA Brumendorf T., Spaltmann F., Treubert U.;
 RT "Cloning and characterization of a neural cell recognition molecule on
 RT axons of the retinotectal system and spinal cord.";
 RL Eur. J. Neurosci. 9:1105-1116(1997).
 DR EMBL: Z94718; CAB08113.1; -
 DR InterPro: IPR003598; I9_C2.
 DR InterPro: IPR003600; I9_Like.
 DR InterPro: IPR003006; I9_MHC.
 DR Pfam: PF00047; I9; 3.
 DR SMART: SM00408; I9C2; 2.
 DR SMART: SM00410; I9_Like; 1.
 KW Brain; GPI-anchor; Immunoglobulin domain; Signal.
 FT SIGNAL 1 24
 FT CHAIN 25 334 CHLAMP, G9-ISOFORM.
 SQ SEQUENCE 334 AA; 37288 MW; 0B40A76BD9609E77 CRC64;

Query Match 52.4%; Score 946; DB 7; Length 334;
 Best Local Similarity 55.2%; Pred. No. 8.9e-75;
 Matches 182; Conservative 57; Mismatches 85; Indels 6; Gaps 4;

QY 14 WAIFGLAALCLFQGVPRSGDATFPKAMDNTVYRQGESATLCTIDNNTVYAMLRST 73
 DB 10 WVL--GFFLFLFPGVPRSGD--FTRGTDNITVRQGDITLILCEVEDSSVAMLRSG 65
 QY 74 ILVAGNDKMLDPRVYLLNSLTQYSEIOWNDVYDGPYTCVQTDNHPKTSRYHLIVQ 133
 DB 66 ILFAGEDKMSIDPRVELEKRSPLERSLKIQVDVYDGPYTCVQTDNHPKTSRYHLIVQ 125
 QY 134 VSPKIVEISSDISINGNISLTCTATGRPEPTVYWHISPKAVGVSDEYLEIQTIR 193
 DB 126 VPKISNISDITVYNSGVTLYVCANGRPEPTVYWHISPKAVGVSDEYLEIQTIR 185
 QY 194 FOSGDPYECSSANDVAPVYRKYVYVNPYISAKGTGVPYQKGLQCEASVAPSAEF 253
 DB 186 FOSGDPYECSSANDVAPVYRKYVYVNPYISAKGTGVPYQKGLQCEASVAPSAEF 245
 QY 254 QWYKDKRLIEGKKGVKVENRPFSLKLFVNSEHDYNTCVASNKLGHTNASTMLFPG 313
 DB 246 EWRDQDTR--INSANGLEIKSTQSLMLVAVNTBEHYGNTCYAANKLGVTNASTMLYRP 304
 QY 314 GAVSEVSNSTGSRRAAGCWMLPLVYLHLK 343
 DB 305 G--TGRVDNGSVSLAVPLMLAASLCLLSK 333

RESULT 8
 ID 002869 PRELIMINARY: PRT; 350 AA.
 AC 002869;
 DT 01-JUL-1997 (TREMBLrel. 04, Created)
 DT 01-JUL-1997 (TREMBLrel. 04, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE CHLAMP, G11-ISOFORM PRECURSOR.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=BRAIN;
 RX MEDLINE=97358596; PubMed=9215692;
 RA Brumendorf T., Spaltmann F., Treubert U.;
 RT "Cloning and characterization of a neural cell recognition molecule on
 RT axons of the retinotectal system and spinal cord.";
 RL Eur. J. Neurosci. 9:1105-1116(1997).
 DR EMBL: Z94719; CAB08114.1; -
 DR InterPro: IPR003598; I9_C2.
 DR InterPro: IPR003600; I9_Like.
 DR InterPro: IPR003006; I9_MHC.
 DR Pfam: PF00047; I9; 3.
 DR SMART: SM00408; I9C2; 2.
 DR SMART: SM00410; I9_Like; 1.
 KW Brain; GPI-anchor; Immunoglobulin domain; Signal.
 FT SIGNAL 1 28
 FT CHAIN 29 350 CHLAMP, G11-ISOFORM.
 SQ SEQUENCE 350 AA; 38656 MW; 0844A892878894D4 CRC64;

Query Match 51.5%; Score 930.5; DB 7; Length 350;
 Best Local Similarity 54.3%; Pred. No. 2.2e-73;
 Matches 183; Conservative 56; Mismatches 81; Indels 17; Gaps 5;

QY 20 LAALCLF--GGVPRSGDATFPKAMDNTVYRQGESATLCTIDNNTVYAMLRSTILYAG 78
 DB 17 LRLCLLPLTGLPVSVD--FTRGTDNITVRQGDITLILCEVEDSSVAMLRSGITFAG 74

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QY 79 NDKWCLDPVYLLSNTOTQYSIEIOWVDYDEGPYTCVQTDNHPKTSRVHLLIVQVSPKI 138
   ||||| | : ||| | ||||| ||||| : ||||| | ||||| |||||
DB 75 EKWMSLDPRVELEKRSPLSELRIOKVYDDEGYSYTCVQTHHPKTSQVYLIVQVSPKI 134
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 139 VEISDSISINEGNNISLTCIATGRPEPTVWRHISPKAVGVSDYDELEIGITREGSD 198
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 135 SNISSDIYVNGSVNLTVCANGRPEPTVWRHILPTGKEEKEEELILITITREGOSK 194
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 199 YECASANDVAAPVVRVRYVTPVPIYSFAKGTGVPGOKGTLOCESAVPSAEQWAKD 258
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 195 YECKANENVASADYQVRYVTPVPIITFESKSNEATGRQALLRCASAVPTPEDEMRD 254
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 259 DKRLIEGKKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNKLGHNTASIMLF----- 311
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 255 DTR-INSANGLEIKTSQSLSLIMVAVNTEEHGNYTCVAANKLGVTNASTLYIKRYVPTL 313
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 312 -----PGGAVSEVSNGTSRAGCVWLLPLVYLHLK 343
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 314 PMPFPGP-TGRDNGSVSLAVPMLLASLCLLSK 349
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

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RESULT 9
Q9M6V2 PRELIMINARY; PRT: 352 AA.
ID O9M6V2
AC O9M6V2
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE NEURORACTIN-L.
GN NTRA-L.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-BRAIN;
RA Brumendorf T.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-BRAIN;
RA MEDLINE=99264333; PubMed=10330412;
RA Mary A., Sirm P., Spaltmann F., Plagege A., Kauselmann G., Buck F.,
RA Rathjen F.G., Brumendorf T.;
RT "Neurotactin, A novel neurite outgrowth-promoting Ig-like protein
RT that interacts with CEP-1 and LAMP.";
RL J. Cell Biol. 145:865-876(1999).
DR EMBL; AJ132999; CAB44446.1; -.
DR InterPro; IPR003598; Iq_C2.
DR InterPro; IPR003600; Iq_Like.
DR InterPro; IPR003006; Iq_MHC.
DR Pfam; PF00047; Iq_3.
DR SMART; SM00408; IGC2_2.
DR SMART; SM00410; IG_Like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 352 AA; 37944 MW; B0FA9F295FDBFA0 CRC64;

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Query Match 46.6%; Score 842; DB 13; Length 352;
Best Local Similarity 48.0%; Pred. No. 1,3e-65;
Matches 159; Conservative 68; Mismatches 102; Indels 2; Gaps 2;
QY 11 SISMAFTGLALCLFGQVPRSGDAFP-KAMDNVTVRQGESATLCTIDNRYTVANL 69
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 11 SHQWLAAYVLGICLLPAGRIAAAGGDFPGAADSLVVRKGDYAVLRCYLEDGASGAWL 70
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 70 NRSTIIYAGNDKWCIDPRVYLLSNTOTQYSIEIOWVDYDEGPYTCVQTDNHPKTSRVH 129
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 71 NRSIIIFAGSDKMSVDPKVSATANKREYSIQIDVDYDDEGPTCSVQTHHPKTMQVH 130
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 130 LIQVSPKIVEISDSISINEGNNISLTCIATGRPEPTVWRHISPKAVGVSEDEYLEIO 189
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

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DB 131 LTVQVSPKIFRISSDIYVNGSVNLTVCATGRPEPTVSRWHISPAKPPES-GQYLDY 189
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 190 GITREGSDYECASANDVAAPVVRVRYVTPVPIYSFAKGTGVPGOKGTLOCESAVP 249
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 190 GITRDAGYECASANDVSPDYKRYVTPVPIITFESKSNEATGRQALLRCASAGVP 249
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 250 SAEFQWYKDKRLIEGKKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNKLGHNTASIM 309
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 250 APYFEWYRGERKLSISGOQGITIKNYSRSLITVNTVEEHGNYTCVAANKLGVTNASTLP 309
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 310 IFGPGAVSEVSNGTSRAGCVWLLPLVYLHL 340
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 310 LMPPTAOTGYITGDAEVLFSCWYLVLTSSL 340
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

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RESULT 10
Q9M6V1 PRELIMINARY; PRT: 261 AA.
ID O9M6V1
AC O9M6V1
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
DE NEURORACTIN-S.
GN NTRA-S.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-BRAIN;
RA Brumendorf T.;
RL Submitted (MAR-1999) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC MEDLINE=99264333; PubMed=10330412;
RA Mary A., Sirm P., Spaltmann F., Plagege A., Kauselmann G., Buck F.,
RA Rathjen F.G., Brumendorf T.;
RT "Neurotactin, A novel neurite outgrowth-promoting Ig-like protein
RT that interacts with CEP-1 and LAMP.";
RL J. Cell Biol. 145:865-876(1999).
DR EMBL; AJ132998; CAB44445.1; -.
DR InterPro; IPR003598; Iq_C2.
DR InterPro; IPR003600; Iq_Like.
DR InterPro; IPR003006; Iq_MHC.
DR Pfam; PF00047; Iq_2.
DR SMART; SM00408; IGC2_1.
DR SMART; SM00410; IG_Like; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 261 AA; 28205 MW; 80E74DFA658802F3 CRC64;

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Query Match 33.2%; Score 599; DB 13; Length 261;
Best Local Similarity 52.6%; Pred. No. 1.7e-44;
Matches 112; Conservative 45; Mismatches 54; Indels 2; Gaps 2;
QY 11 SISMAFTGLALCLFGQVPRSGDAFP-KAMDNVTVRQGESATLCTIDNRYTVANL 69
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 11 SHQWLAAYVLGICLLPAGRIAAAGGDFPGAADSLVVRKGDYAVLRCYLEDGASGAWL 70
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 70 NRSTIIYAGNDKWCIDPRVYLLSNTOTQYSIEIOWVDYDEGPYTCVQTDNHPKTSRVH 129
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 71 NRSIIIFAGSDKMSVDPKVSATANKREYSIQIDVDYDDEGPTCSVQTHHPKTMQVH 130
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 130 LIQVSPKIVEISDSISINEGNNISLTCIATGRPEPTVWRHISPKAVGVSEDEYLEIO 189
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 131 LTVQVSPKIFRISSDIYVNGSVNLTVCATGRPEPTVSRWHISPAKPPES-GQYLDY 189
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
QY 190 GITREGSDYECASANDVAAPVVRVRYVTPVPIYSFAKGTGVPGOKGTLOCESAVP 222
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||
DB 190 VITRDAGYECASANDVSPDYKRYVTPVPIITFESKSNEATGRQALLRCASAGVP 222
   ||||| | ||||| | ||||| | ||||| | ||||| | ||||| | |||||

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RESULT 11
Q9VAR6 PRELIMINARY; PRT; 413 AA.
AC Q9VAR6; 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE CG14521 PROTEIN (GH08175P).
GN CG14521.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-BERKELEY;
RX MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celinker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter F.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abriil J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Bertram B.P., Bhandari D., Bolshakov S.,
RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotlier P.,
RA Burris K.C., Busan D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Butts J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Mei M.H., Idegami C.,
RA Jalili M., Kalush F., Karpen G.H., Ke Z., Kenison J.A., Kethum R.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Moberly C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacle J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheefer F., Shen H.,
RA Spier E., Spradling A.C., Stapleton M., Skupski M.P., Smith T.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wasserman D.A., Weinstock G.M., Weissenbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh K.-F., Zaveril J.S., Zhan M., Zhou X., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN-ET, CN BM SP;
RA Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Farfan D., Frise E., George R.,
RA Gonzalez M., Guarin H., Li P., Liao G., Miranda A., Mungall C.J.,
RA Nuno J., Pacle J., Paragas V., Park S., Phouanavong S., Wan K.,
RA Yu C., Lewis S.E., Rubin G.M., Celinker S.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AE003767; AAF56835.1; -
DR EMBL; AY060653; AA128201.1; -
DR FlyBase; FBgn0039617; CG14521.
DR InterPro; IPR003598; Ig_C2.
DR InterPro; IPR003600; Ig_Like.
DR InterPro; IPR003006; Ig_MHC.
DR Pfam; PF00047; Ig_3.

DR SMART: SM00408; ITC2; 2.
DR SMART: SM00410; ITC1; 1.
KW Immunoglobulin domain.
SQ SEQUENCE 413 AA; 45291 MW; EC0D9A20F7AE0255 CRC64;
Query Match 18.7%; Score 338.5; DB 5; Length 413;
Best Local Similarity 28.0%; Pred. No. 2.3e-21;
Matches 103; Conservative 55; Mismatches 147; Indels 63; Gaps 13;
QY 35 DATEPKAMDVWYVROGESATLRTCTIDN-RVTRAVAMNRS--TILVAGDNKCLDPRIALL 91
DB 38 DPERIGINWYTPAGREKILACSVRLGNKNGWLRASDQVYLALGQRYVTNARLSTWA 97
QY 92 SNTQTSIEIQNDVYDEGPYTCVQTDNHPFTSRVHLI-VQVSPKIV--ELISSDISIN 148
DB 98 HQDMHTWKLKLSIKRESRDCGCMQINTS--PKMKQVGVIDVQPPDINNESSADLAV 155
QY 149 EGNNTSLTCAIGREPTVYTRH-----ISPKAVGSDEY----LEIQGITREOS 196
DB 156 EGEDATITCKATGPNQPNVYWRREDGEMILIRRGSGRELKVESYSSLRLLRLRRROM 215
QY 197 GDRECSANDVAAPYRREKVTNVPYI-SEAKGTGVFVGKGLQCEASAVPSAEFQM 255
DB 216 GAYLCIASNDVPAPVSKFVSLVQFAPWVRASQLGLTFLGSDVQLBEQVEASPSVSYW 275
QY 256 YK-----DDKRLIEGKKGVAVENRP--FLSKLIFPNVSEHDYG 291
DB 276 LKARFNSNFPASVSTASLESQSPGPEMLDGPYKGTITERRDGYRGVMLVVRSPSPDVG 335
QY 292 NYTCVASNKIGHTNSIMLF---GPGA-----VSENSNGTSRRAGCWIILP 334
DB 336 TYHCVTNSLGRABEGLTLVLEIKLHPASANDHLNITGGILEARNAGNSRTTW-OP 394
QY 335 LAYVHLIL 342
DB 395 LLAMLMIL 402
RESULT 12
ID Q9VMB2 PRELIMINARY; PRT; 315 AA.
AC Q9VMB2;
DT 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE CG11320 PROTEIN.
GN CG11320.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OX Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-BERKELEY;
RX MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celinker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter F.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abriil J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Bertram B.P., Brokstein P., Brotlier P.,
RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotlier P.,
RA Burris K.C., Busan D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Butts J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,

RA Glodok A., Gong F., Correll J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Mei M.-H., Ideguchi C.,
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Kechum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lal Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Merkulov G., Mishina N.V., Mobarry C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Murthy D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Paclab J.M.,
 RA Palazolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Switskas R., Tector C., Turner R., Venter E., Wang A.H., Yang X.,
 RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.,
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhan G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,
 RT "The genome sequence of *Drosophila melanogaster*,"
 RL Science 287:2185-2195(2000).
 DR EMBL: AE003614; AAF52409.1; -
 DR Flybase: FBgn0031837; CG11320.
 DR InterPro: IPR003598; IG_c2.
 DR InterPro: IPR003600; IG_1like.
 DR InterPro: IPR003006; IG_MHC.
 DR Pfam: PF00047; Ig_3.
 DR SMART: SM00408; IGc2; 2.
 DR SMART: SM00410; IG_1like; 1.
 KW Immunoglobulin domain.
 SQ SEQUENCE 315 AA; 35487 MW; 4CC4DEAA45DA12B8 CRC64;

Query Match 18.4%; Score 333; DB 5; Length 315;
 Best local Similarity 31.9%; Pred. No. 4.7e-21;
 Matches 94; Conservative 54; Mismatches 125; Indels 22; Gaps 11;

QY 33 SGATFPKAMDNTVVGSGSATLCTIDNRYT-RVAML--NRSTLYAGNDKWLDPVYLSNT 89
 DB 19 AADRFSGPLNNSTVPGVGRDALTCVYHDLVSFKVAMLVDTQLTSLQNHVITKMRHS 78
 QY 90 LLSNTQYSEIEIONVDYDEGPTGCVQTDNHPKTSRY-HLIYQVSKLY--EISDIS 146
 DB 79 ISHTEHIMQLKIDYQSDRGWIMCOINTD--PKSQMGYLVDVVPDIDYQTSODVY 136
 QY 147 INEGNNISLTCIATGRPEPTVYWRHISPKAVGFVSD--EYLEIQG-----ITREQS 196
 DB 137 RSTGQAVTLTCSATGVPMPTLWRKEATPI-LISDDGRREVFSEGNLTIMQVQSRKH 195
 QY 197 GDYECASNDVAPVPRKRYKTVNPPYISEAKGT-GVPVQKGTLOCEASAVPSAEFQW 255
 DB 196 GAYICIASNGVPTVSKRMVLVNFAPITWTRDYTLVYLGQKLTLECTESQDASVNW 255
 QY 256 YKDKRLIECK-KGVKEN-RPFSKLIFFNVSEHDYGYTCVASNKLGHNTASI 308
 DB 256 LRFSQLLGGGSYSESVHVRIVRYMTLTPITKRFEGYICRAKMANMGQTDRII 310

RESULT 13
 P91670 PRELIMINARY; PRT; 528 AA.
 AC P91670;
 DT 01-MAY-1997 (TReMBLrel. 03, Created)
 DT 01-MAY-1997 (TReMBLrel. 03, last sequence update)
 DT 01-DEC-2001 (TReMBLrel. 19, last annotation update)
 DE KILONG.
 GN KLG OR KILONG OR CG6669.
 OS *Drosophila melanogaster* (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 CC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 CC Ephydroidea; Drosophilidae; Drosophila.
 OX NCBI_TaxID=7227;

RN [1]
 RP SEQUENCE FROM N.A.
 RA Butler S.J., Ray S., Hiroki Y.,
 RL Submitted (NOV-1996) to the EMBL/Genbank/DBJ databases.
 DR EMBL: U78177; AB36550.1; -
 DR Flybase: FBgn0017590; Klg.
 DR InterPro: IPR003961; FN_III.
 DR InterPro: IPR003598; IG_c2.
 DR InterPro: IPR003600; IG_1like.
 DR InterPro: IPR003006; IG_MHC.
 DR Pfam: PF00047; fn3; 1.
 DR SMART: SM00060; FN3; 1.
 DR SMART: SM00408; IGc2; 2.
 DR SMART: SM00410; IG_1like; 1.
 KW Immunoglobulin domain
 SQ SEQUENCE 528 AA; 36565 MW; B6C707A0A24806BC CRC64;

Query Match 17.1%; Score 308.5; DB 5; Length 528;
 Best local Similarity 28.8%; Pred. No. 1.4e-18;
 Matches 85; Conservative 54; Mismatches 127; Indels 29; Gaps 10;

QY 36 ATEPKAMDNTVVGSGSATLCTIDNRYT-RVAML--NRSTLYAGNDKWLDPVYLSNT 94
 DB 98 AFPLQRTFLPRRRBAGLPCQVENLGNFVILNRGTNLTSLNMTYRDERVLLIDG- 156
 QY 95 QTYSEIEIONVDYDEGPTGCVQTD-NPKTSRYHLIYQVSKRYEISSDISISNEGNNI 153
 DB 157 ---VYLEISDLEPDGADGVCOISDKINRDGVHVEIIVPPSRALPTSGQLQARKGPI 213
 QY 154 SLTICATGRPEPTVYWRHIS--PKAVGFVSEDEYLEIQGITRQSDYECASNDVAPV 211
 DB 214 TLECGSGSNVPPSTLYTKSGANKSTARIIGPILTEKLERQQAQVYCTADNGVGPV 273
 QY 212 VRRKVTYVNPYPISEAKG---TGVPQKGTLOCEASAVPSAEFQWYD-----DKR 261
 DB 274 TVDMRLDVLVPPDLOYEKSMHSG--EGFEAKLCIYFADPVPATVSNYNSPIOSTKR 331
 QY 262 LIEGKKGVKENRPFSKLIFFNVSEHDYGYTCVASNKLGHNTASIMLFG-PGA 315
 DB 332 IMAR-----ANRHMILT--IRHQEDFEGNVCVADNSIGRSRKMELSGPGA 378

RESULT 14
 Q9VCT4 PRELIMINARY; PRT; 545 AA.
 AC Q9VCT4;
 DT 01-MAY-2000 (TReMBLrel. 13, Created)
 DT 01-MAY-2000 (TReMBLrel. 13, last sequence update)
 DT 01-DEC-2001 (TReMBLrel. 19, last annotation update)
 DE KLG PROTEIN (LD10776P).
 GN KLG OR CG6669.
 OS *Drosophila melanogaster* (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 CC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 CC Ephydroidea; Drosophilidae; Drosophila.
 OX NCBI_TaxID=7227;

RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BERKELEY;
 RX MEDLINE=20196006; PubMed=10731132;
 RA Adams M.D., Ceiniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Vandeil M.D., Zhang Q., Chen L.X.,
 RA Brandon R.C., Rogers Y.-H.C., Blazek R.G., Champe M., Pfeiffer B.D.,
 RA Wan K.H., Doyle J.C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
 RA April J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
 RA Bales R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
 RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brotter P.,
 RA Burlis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,

RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
 RA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Glodok A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
 RA Hostin D., Houston K.A., Howland T.J., Mei M.-H., Idegawa C.,
 RA Jajali M., Kalush F., Karen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattle B., McIntosh T.C., McLeod M.P., Moshrefi A.,
 RA Merkulov G., Milshina N.V., Moberly C., Morris J., Moshrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacle J.M.,
 RA Palazzolo W., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Wang Z.-Y., Wasserman D.A., Weisslock G.M., Weissbach J.,
 RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
 RA Ye J., Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.,
 RA "The genome sequence of *Drosophila melanogaster*.";
 RL Science 287:2185-2195(2000).
 RV [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=F, CN BW SP;
 RA Stapleton M., Brokstein P., Hong L., Agdayani A., Carlson J.,
 RA Champe M., Chavez C., Dorsett V., Farfan D., Frise E., George R.,
 RA Gonzalez M., Guarin H., Li P., Liao G., Miranda A., Mungall C.J.,
 RA Nuncio J., Pacle J., Paragas V., Park S., Phouanavong S., Wan K.,
 RA Yu C., Lewis S.E., Rubin G.M., Ceiniker S.,
 RL Submitted (Oct-2001) to the EMBL/Genbank/DBJ databases.
 DR EMBL: A003741; AAF6071.1;
 DR EMBL: AY060363; AAI25402.1;
 DR FLYBase: FBgn0017590; K1g.
 DR InterPro: IPR003961; FN_III.
 DR InterPro: IPR003598; I9_C2.
 DR InterPro: IPR003006; I9_MHC.
 DR Pfam: PF00047; I9; 3.
 DR SMART: SM00060; FN3; 1.
 DR SMART: SM00408; IGC2; 3.
 KW Immunoglobulin domain.
 SQ SEQUENCE 545 AA; 60087 MW; D5E81D9E574E9DE CRC64;

Query Match 16.9%; Score 306; DB 5; Length 545;
 Best Local Similarity 28.9%; Pred. No. 2, 4e-18;
 Matches 86; Conservative 55; Mismatches 125; Indels 32; Gaps 12;

QY 36 AIFPKAMD-NVTVRQ--GESATLCTIDNRYTRV-AMLNKSTILYAGNDKWCIDPRVYL 91
 DB 98 ATLPRFLSRGHTYRAVYGDVLYLPCVENLGNFVILNRRGIVNLVLSNMTVRDERVLI 157
 QY 92 SNTQVYSIEIQNDVYDEPPTCSYQVD-NHFKTSRHLIVQVSPKIVEISDSISNEG 150
 DB 158 DG----YMLEISLDEPDQADGYVQISDKINRDVHTVELIVPPSVRAIPTSGQLQARG 213
 QY 151 NNISLTCIATGPEPTVTRHS--PKAVGVSEDEYLETQITRQSGDYECASNDYA 208
 DB 214 GPTLECKSGSNPVSITWTKKSGANKSTAGIGDGPILLLEKTERQAGVYQCTADNGVG 273
 QY 209 APVVRKVVYVNPPIYSKAG--TGVPVQKGTLOCEASAVPSAEFQWKD----- 258
 DB 274 DFVYDMLDVLVLPDIQVEKSHSG--EGFEAKLVCIYFADPAVATVSWQNSRPIOST 331
 QY 259 DKRLIEGKGVKVENRPLSKLIFPNVSEHRYGNTVVASNKLGHTNASIMLFG-PGA 315
 DB 332 DRIIMATP-----ANRHMILT--IRHIOEDDFGNTSCVADNLSIGSRKRMELSGRPGA 381

RESULT 15
 096SC3
 ID 096SC3 PRELIMINARY; PRT; 2673 AA.
 AC 096SC3;
 DT 01-DEC-2001 (TREMBLrel. 19, Created)
 DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
 DE FIBULIN-6 (FRAGMENT).
 GN FIBL-6.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OC NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=MELANOMA;
 RA Koska G., Timpi R.,
 RT "Partial sequence of fibulin-6 with a c-terminal region related to
 RL domain II and III of the fibulin family";
 DR Submitted (Apr-2001) to the EMBL/Genbank/DBJ databases.
 DR EMBL: AJ306905; CAC37630.1;
 FT NON_TER 1
 SQ SEQUENCE 2673 AA; 291017 MW; BEAEC30E8340E272 CRC64;

Query Match 16.1%; Score 290.5; DB 4; Length 2673;
 Best Local Similarity 29.8%; Pred. No. 5, 3e-16;
 Matches 87; Conservative 36; Mismatches 106; Indels 63; Gaps 10;

QY 46 TVRQGSATLCTIDNRYTRVAMLNKSTILYAGNDKWCIDPRVYLSNTQVYSIE---- 101
 DB 1217 TVNENSOALLPCVADGIPTPAI-----NKKDN--VLANLIGKTAAPYE 1261
 QY 102 --IQNDVYDEPPTCSYQVDNHFKTSRHLIVQVSPKIVEISDSISNEGNNISLTCIA 159
 DB 1262 LILENVVLEDSEGYTCVANNAGEDHTVSLTVHLPFTTELPGDVLNKGEOILRISCKA 1321
 QY 160 TGRPEPTVW--RHISPKAVGVSEDEYLETQITRQSGDYECASNDYA----- 208
 DB 1322 TGIPLPKLWTFNNNIIPAHFDSYNGSHSELVERSKDSGTIVCTAENSNGVKAIGFV 1381
 QY 209 ----APVVRKVVYVNPPIYSKAGTGVVQKGTLOCEASAVPSAEFQWKDRLTE 264
 DB 1382 YVKEPPEVFG-----DYPSHWIE-----PLGNAILNCEVKGDPPTPIQW----- 1421
 QY 265 GKKGVVENRPLSKL-----IFPNVSEHDYGNTCYASKLGHNTNASIML 310
 DB 1422 NRGVDIELSHRIRQLNGSLAIYGTVNE-DAGDYTVCAVTEAGVVERSWSL 1472

Search completed: July 12, 2002, 00:45:04
 Job time: 682 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 21:28:00 ; Search time 2986.73 Seconds

(Without alignments)
7650.623 Million cell updates/sec

Title: US-09-700-397-2

Perfect score: 1693

Sequence: 1 gtcctcagcaacacagtg.....aaaaaaaaaaaaaaaa 1693

Scoring table:

IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

EST.*
1: em_estba.*
2: em_esthm.*
3: em_estlin.*
4: em_estmu.*
5: em_estov.*
6: em_estpl.*
7: em_estro.*
8: em_hic.*
9: gb_est1.*
10: gb_est2.*
11: gb_hic.*
12: gb_gss.*
13: em_gss_hum.*
14: em_gss_inv.*
15: em_gss_pln.*
16: em_gss_vrl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length DB	ID	Description
1	658	38.9	865	10	B1666583
2	645	38.1	1015	9	AL533026
3	635.2	37.5	1039	10	BE798585
4	631.8	37.3	870	10	B1913885
5	627.6	37.1	732	10	B1551784
6	612.4	36.2	784	10	B1549918
7	600.8	35.5	604	9	AM025115
8	593.2	35.0	770	9	AM117456
9	549	32.4	661	10	BM009450
10	544.8	32.2	580	10	B1548566
11	540.2	31.9	633	10	BE263839
12	531.4	31.4	545	10	BE263839
13	528.4	31.2	754	10	B1598759
14	523.4	31.0	768	9	AU080629
15	486	28.7	486	9	A1753140
16	485.6	28.7	953	10	BM423716
17	471.2	27.8	671	9	BB644996

18	467.2	27.6	479	9	AA843782
19	457.4	27.0	524	9	BE014142
20	455	26.9	979	10	BG261691
21	453	26.8	522	10	B1553032
22	450	26.6	849	10	B1755360
23	447.6	26.4	553	10	BB864555
24	443.4	26.2	456	9	A1369684
25	440	26.0	548	9	BE015245
26	437.4	25.8	440	9	A1318423
27	427.8	25.3	655	10	B1548049
28	424.4	25.1	426	9	A1332824
29	419.2	24.8	683	9	BB640070
30	408.4	24.1	806	9	AU051132
31	404.2	23.9	557	10	BM256660
32	396.8	23.4	533	10	B1341675
33	391.2	23.1	688	9	BB646531
34	388.8	23.0	754	10	B1550038
35	374.4	22.1	376	9	A1246488
36	371	21.9	705	10	BG704152
37	370	21.9	389	9	AA50107
38	349.6	20.6	425	10	H87092
39	346	20.4	346	9	A1951451
40	340.2	20.1	478	10	H05429
41	334.4	19.8	336	9	A1262562
42	332	19.6	579	9	BB644523
43	325	19.2	329	10	F06205
44	310.2	18.3	602	9	BB611718
45	295	17.4	764	10	B1752729

ALIGNMENTS

RESULT 1
LOCUS B1666583
DEFINITION 603291469P1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5310833 5',
LOCUS B1666583
ACCESSION B1666583
VERSION B1666583.1 GI:15580816
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 865)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strusberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Miklos Palokovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shitaki Toshitaki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Plate: L1AM11787 row: j column: 18
High quality sequence stop: 742.
Location/Qualifiers
1..865
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5310833"
/clone_lib="NIH_MGC_96"
/tissue_type="hypothalamus"
/lab_host="DH10B"
/note="Organ: brain; Vector: pBluescriptR (modified pBluescript KS+); Site 1: BamHI; Site 2: SalI-XhoI (Gcgag); Oligo-dT primed using primer 5'-TTTTTTTTTTTTTNN-3', size-selected for average insert size 2.3 kb and

normalized to R01 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/NHGRI, National Institutes of Health). Note: this is a NIH-MGC library."

BASE COUNT 250 a 230 c 209 g 176 t

ORIGIN

Query Match 38.9%, Score 658, DB 10; Length 865;
Best Local Similarity 99.7%, Pred. No. 1.2e-84;
Matches 680; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 1 gtctctgaagaagaagaggtggttaataatcccttgacaagcttgagagacaatct 60
DB 55 gtctctgaagaagaagaggtggttaataatcccttgacaagcttgagagacaatct 114
QY 61 atcagagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
DB 115 ATCAG 173
QY 121 aaaaaatcatgaaataacatccagcaaaaatgacaattctatctcttggaatcttc 180
DB 174 AAAAAATCATGAAAAACCATCCAGCAAAATGCACAAATTATCTCTGGGCAATCTTC 233
QY 181 accgggctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 240
DB 234 ACCGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 293
QY 241 ttccccaagcatatgacaacgttaacgttcgcaaggagagagagagagagagagag 300
DB 294 TTCCCAAGCATATGAGACAGTACGCTGCGAGAGAGAGAGAGAGAGAGAGAGAGAG 353
QY 301 acctatgacaacccgggtacccgggtgctgctgctgctgctgctgctgctgctgct 360
DB 354 ACTATTGACACCGGGTACCCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 413
QY 361 gggaatgacaatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 420
DB 414 GGGAATGACAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 473
QY 421 tacagatcgaatccagaacgttgatgatatgacagagagagagagagagagagag 480
DB 474 TACAGATCGAATCCAAAGTGTGATGACAGAGAGAGAGAGAGAGAGAGAGAGAG 533
QY 481 cagacagacaaccccaagaacacctgaaggtccacccatctgtgcaagatctcccaa 540
DB 534 CAGACAGACAACCAACCAAGAGCTCTAGGGTCCACCTGATGTCGCAAGTATCTCC 593
QY 541 atttagaatcttctgaatctatctcattatgaaggaac-aatattagctcactg 599
DB 594 ATTGTAGAGATTCTTCCAGATATCTCCATTAAVGAAGGAAACAATATTAGCTCA 653
QY 600 catagcaactgtagaccagagctacaggttacttgagagacatctctcc-aaagcgt 659
DB 654 CATAGCAACTGAGTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 713
QY 660 tggcttctgtgagtgaaagaa 681
DB 714 TGGCTTGTGAGTGAAGAGCAAA 735

RESULT 2
AL533026 1015 bp mRNA linear EST 13-FEB-2001
LOCUS AL533026 LTI-FL015-Bn1 Homo sapiens cDNA clone CS0DN005YD20 5
DEFINITION AL533026 LTI-FL015-Bn1 Homo sapiens cDNA clone CS0DN005YD20 5
prime, mRNA sequence.
ACCESSION AL533026
VERSION AL533026.1 GI:12796519
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE 1 (bases 1 to 1015)
AUTHORS Li, M.B., Gruber, C., Jesse, J. and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 Evry cedex - France
Email: sequef@genoscope.cns.fr, Web : www.genoscope.cns.fr.
Location/Qualifiers
1..1015
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="CS0DN005YD20"
/clone_1="LTI-FL015-Bn1"
/sex="male"
/tissue="brain"
/note="Vector: pCMVSPORT 6; Site 1: NotI; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with NotI and cloned into the NotI and EcoRV sites of the pCMVSPORT 6 vector. Library was constructed by Life Technologies.
Contact : Feng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 Email : fliang@life.com
http://fulllength.invitrogen.com"

BASE COUNT 295 a 249 c 251 g 219 t 1 others
ORIGIN

Query Match 38.1%, Score 645, DB 9; Length 1015;
Best Local Similarity 86.8%, Pred. No. 8e-83; 1; Indels 121; Gaps 4;
Matches 806; Conservative 1; Mismatches 1;

QY 527 aagatctcccaaatctgtagatcttccagatatcccatatgaaggaacata 586
DB 90 AAGTATCTCCCAAAATGTAGAGATTCTTCAATATCTCCATTATGAAGGAGACAA 149
QY 587 ttggctcaccgtatgacactgtagaccagagcctacgttacttgagacacatct 646
DB 150 TTGAGCTCACCGTACAGCAACTGTGAGACCAAGGCTACGGTACTTGGAGACATCT 209
QY 647 ctcccaagcgggttgcttgcttgtagaagacgaatcttgaaatccagagatcacc 706
DB 210 CTCCTCAAGAGGTTGGCTTTGTGATGAGACGAACTGTGAATTCAGGCAATCC 269
QY 707 ggagagcagtcagggactacagtgtagtccctccatgaagctgagccgctgtgac 766
DB 270 GGGAGCAGTCAAGGAGTACAGTACAGTACAGTACAGTACAGTACAGTACAGTAC 329
QY 767 ggagagtaagtagtcacgtgtagctatccacatcaatctgaagacgaaggtacagtg 826
DB 330 GGAGAGTAAAGGTCCCGTGAATTCACCAATATTCAGAAAGCCAAAGGTACAGT 389
QY 827 tcccgctggagacaagaagagcaactgaatgtagaagcctcagagcagtcctcagagaa 886
DB 390 TCCCGCTGGGAGCAAAAGGAGACATCTGAGAGCCTCAGAGTCCCTCAGAGAA 449
QY 887 tccagtgtagaagatgacaaa 910
DB 450 TCCAGTGTACAGAGATGACAAAAGAGCTGAATCTCATTCACAGTTGTGATGAG 509
QY 911 910
DB 510 AAGCTCTCTCCCATGAGTACAGAAATGTGTCAAAAGGCGCAGTGGATCAATCAGCT 569
QY 911 gactgattgaagaagaagaagagagagagagagagagagagagagagagagagag 948
DB 570 GACTTGCTCGAGAGATCTCCGACATGATTGAAGAAAGAGAGAGAGAGAGAGAGAG 629
QY 949 agaccttccctcaaaatcatctctcaatgtctctgaacatgactatggagactac 1008

Db 630 AGACCTTTCCTCTCAAAACATCTTCTTCATGTCTCTGACATGACTATGGAACTAC 689
 QY 1009 acttgctggcctccaaagctggggccacacaaatccacagctcattgtatgttcca 1068
 Db 690 ACTGCGTGGCTCCCAACAGCTGGGCCACACACATGCGACATCATGCTATTGTGTCCA 749
 QY 1069 ggcgcgcctcagcgaagtgcagcaacggcagctcgagagggcagctgcgtctgctgctg 1128
 Db 750 GCGCGCGTCAAGCGAGGTGACCAACGGACGTCGAGGAGGGCAGCGCTCTGCGCTGCTG 809
 QY 1129 cctcttcgtgcttgacacctgcttcaatttgatgtgagtgcacctcccccccg 1188
 Db 810 CCTCTTCTGGTCTTTCACCTGCTTCTCAAAATTTTGATGTGAGT-SCACTTCCCGCACCGG 868
 QY 1189 gaaagctggccgac 1248
 Db 869 GAAAGCGTGGCGCCGAC 927
 QY 1249 atcagatatatacaaatgaattagaagaacacacagctcattgagacagaattgaggg 1308
 Db 928 ATCAGATATATACAAATGAATTTAGACAAACACAGCCTCATGGACAAATTTGAGCG 987
 QY 1309 aggggaacaaagaattccttgggggaaa 1337
 Db 988 AGGGG-ACAAAGATACCTTGGGGGAAAA 1015

RESULT 3
 BE798585 1039 bp mRNA linear EST 20-SEP-2000
 LOCUS 601581610P1 NIH_MGC_7 Homo sapiens CDNA clone IMAGE:393595 5',
 DEFINITION mRNA sequence.
 ACCESSION BE798585
 VERSION BE798585.1 GI:10219783
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 1039)
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-rt@mail.nih.gov
 Tissue Procurement: DCTD/DTF
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov
 Plate: LNCM779 row: d column: 04
 High quality sequence stop: 849.

FEATURES
 SOURCE
 1..1039
 Location/Qualifiers
 1..1039
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:393595"
 /clone_lib="NIH_MGC_7"
 /tissue_type="small cell carcinoma"
 /cell_line="MGC3"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: lung; Vector: pORF7; Site: 1: XhoI; Site: 2:
 EcoRI; CDNA made by oligo-dT priming. Directionally
 cloned into EcoRI/XhoI sites using the following 5'
 adaptor: GCGACGAG(5). Size-selected >500bp for average
 insert size 1.8kb. Library constructed by Ling Hong in
 the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-CDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies)."
 BASE COUNT 274 a 271 c 286 g 207 t 1 others

Query Match 37.5%; Score 635.2; DB 10; Length 1039;
 Best Local Similarity 97.6%; Pred. No. 2e-81;
 Matches 656; Conservative 0; Mismatches 13; Indels 3; Gaps 1;

QY 294 caggtgcactcttaacacccgggtccaccgggtggcctggcgttaaacgcagacatcct 353
 Db 65 CAGGTGCACCTATATACACCGGGTCCCGGGTGGCTGAGTAAACCGACAGACATCT 124
 QY 354 ctatgctgggaatgcagaagtgtgtgcttgatcctgcgtggtgcttcttgagcaaccca 413
 Db 125 CTATGCTGGGAATGACAAAGTGTGCTGGATCTCTGCTGGTCTCTTTGAGCAACCCCA 184
 QY 414 aagcagatcagcagctcagatccagaacgtgagtgtatgtatgcagagggccttaacctg 473
 Db 185 AACGAGATACAGCATTCAGATCCAGAACTGATGTGATGACAGGGCCCTTACACCTG 244
 QY 474 ctccgtgcagaac 533
 Db 245 CTGGGTGACAGAC 304
 QY 534 tcccaaaattgagattctcttcagatatctccattaatgaagggaacatattagcct 593
 Db 305 TCCCAAAATGTAGATTTCTTCACATATCTCCATTATGAGAGAACATATTAGCCT 364
 QY 594 caactgcatagaacatgtgtagaccagagcctacggttacttggagacacatctcccaa 653
 Db 365 CACCTGCATACCACTGTGTAGACAGAGCTTACGGTTACTGTGAGACACATCTCCCAA 424
 QY 654 aagcgttgctcttgatgagagagacgaacttgtaattccagagcatcaccggagaca 713
 Db 425 ACGGTTGGCTTTGTGAGTGAAGCAATCTTGAAATTCAGGGATCACCCGGGAGACA 484
 QY 714 gtcaaggagactacagtgacgtgacctccaatgacgtgacgcgcctgtgtacagagagt 773
 Db 485 GTCAAGGAGACTACAGTGAAGTGCAGTGCTCCCATGAGACTGGCCGCCCTGTGTACGAGAGT 544
 QY 774 aaagtgacgtgacatccacatccacatccacatccacatccacatccacatccacat 833
 Db 545 AAAGGTACCGCTGACATCCACATCCATATTCAGAAAGCCAGAGGTACAGGTGCCCGT 604
 QY 834 gggacaagaaggagac 893
 Db 605 GGGACAAAAGGGGACACTGAGTGAAGCCTCAGACGCTCCCTCGACGAATTCAGTGG 664
 QY 894 gtacaagatgcacaaagaactgattgaagaaa--agaagaagggtgaaggtgaaacag 950
 Db 665 GTACAGGATGACAAAAGACTGATTGAAAGAACAGACAGAGGGTGACACTTGGAAAAAG 724
 QY 951 acccttcctc 962
 Db 725 ACCCTTTCCTC 736

RESULT 4
 B1913885 870 bp mRNA linear EST 16-OCT-2001
 LOCUS 603183295F1 NIH_MGC_121 Homo sapiens CDNA clone IMAGE:5247550 5',
 DEFINITION mRNA sequence.
 ACCESSION B1913885
 VERSION B1913885.1 GI:16178206
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 REFERENCE 1 (bases 1 to 870)
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-rt@mail.nih.gov
 Tissue Procurement: Life Technologies, Inc.

OY	241	ttccccaagaatctatgacaacgtgacacggtccggacggggagacgcacacctcaagtgc	300
Db	239	TTCCCCAAAGCTATTGAGAACGTAACGATCCGACAGGGGGAGACCTCCACCTCTCAGGTGC	358
OY	301	actatctgaacaacccgggtlcaaccgggtgtgctgtgcctaaaccgcacacatctcattgct	360
Db	359	ACTATTGACAACCCGGGTGTCACCCGGGTGGCGCTGGTAAACCGACACACATCCTCTATTCT	418
OY	361	gggaatgaaacagtgtgtcctggatctctgcgtgcgtcctcttgagcaaaccccaaacgag	420
Db	419	GGGAATGACAACGTGTGTCTGTGATCTCCGGTGTCTTCTTGAGCAACCCCAAAACGAG	478
OY	421	tacaagatcgaatctccagaacgtgagtggtgtgacgagggcccttacaacctgcgtcagtg	480
Db	479	TACAGCATGAGATTCAGAAACGTGATGTGTATAGACAGGGCCCTTACCTGCTCGGTG	538
OY	481	cagacagacacaccaccaagaaccttaaggttcaacctcatgtgtgaagtatctccaca	540
Db	539	CACACGAGCAACMACCCAAAGACCTCTAGGGTCCACCTCAATGTGCAATATCTCCAAA	598
OY	541	atgtgagatcttctcagatctcatctccattaaagaagaaacatttgctctacctgc	600
Db	599	ATTGTAGAGATTTCTTCAGATATCTCATTAATGAGGAGCAATATTATGCTCCACCTGC	658
OY	601	atagaacatggttagaccagagctcaggttacttgg-agaacatctctcccaaacgagt	659
Db	659	ATGGAACACTGGTAAACACAGAGCTCAGGTACTCTTGGAAGACACATCTCTCCAAAGCGG	717
OY	660	tgaccttggtagta	674
Db	718	TGACCTTGTGAGGTGA	732

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RESULT 6
LOCUS      B1549918
DEFINITION B1549918
ACCESSION 603194765f1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:5274161 5',
VERSION    B1549918
KEYWORDS   B1549918.1 GI:15437230
SOURCE     EST.
ORGANISM   human.
            Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE  1 (bases 1 to 784)
            NIH-MGC http://mgc.nci.nih.gov/.
            National Institutes of Health, Mammalian Gene Collection (MGC)
            Unpublished (1999)
COMMENT    Contact: Robert Strausberg, Ph.D.
            Email: cgabs@email.nih.gov
            Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
            cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
            Toshiyuki and Piero Carninci (RIKEN)
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/ LNL at:
            http://image.lnl.gov
            Plate: LRAM1692 row: b column: 18
            High quality sequence stop: 726.
            Location/Qualifiers
FEATURES
            source

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5274161"
/clone_1b="NH MGC 95"
/tissue_type="hippocampus"
/lab_host="DH10B"
/note="Organ: brain; Vector: Bluescript (modified
bluescript KS+); Site: BamHI Site:2; Salt:KCl (gtcgaat
); Oligo-dT primed using primer 5'-ATTGTTTATGTA-3'

```

size-selected for average insert size 2.5 kb and normalized to RQF 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIH/HGSC, National Institutes of Health). Note: this is a NIH_MGC Library."

Query Match	36.28;	Score 612.4;	DB 10;	Length 784;
Best Local Similarity	98.28;	Pred. No. 3.8e-78;		
Matches 662;	Conservative	0;	Mismatches 6;	Indels 6;
				Gaps 4;

QY	1	glttttcgaacaaagagtgatgatttaattcaatctctctgcacagcttgagagcaacacatct	60
Db	65	gttccttcacacaaacagtgagattttaaattctccttcacaaagcttgagacaaacaaatct	124
QY	61	atcaggaagaagaagaagaaaaaaacgaactcgtgacaaaaagaagaagaagaaga	120
Db	125	atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga	183
QY	121	aaaaaaatcaatgaanaacatccacgcacaaanaatgcacaattctactcttgcgcacattc	180
Db	184	aaaaaaaaatgatgaacacacatccacgcacaaanaatgcacaattctcttcttgaggcaattcttc	243
QY	181	acggggctgcgtcgtctcgtctctcttccaaagagtgccgctgcgcagcggagatgcccac	240
Db	244	acggggctgcgtcgtcgtctctcttcttccaaagagtgccgctgcgcagcggagatgcccac	303
QY	241	ttccccaagatcgtatggaacacgtgaacggtccgcagggggagagagcgcaacctcaagttgc	300
Db	304	ttccccaagatcgtatggaacacacgtgaacggtccgcagggggagagagcgcaacctcaagttgc	363
QY	301	actatcgaaacccgggtgcaccgggtggtgcgtgcgtcctaaacgcgcagcaactctctatgct	360
Db	364	actatcgaaacacccgggtgcaccgggtggtgcgtgcgtcctaaacgcgcacacatctctatgct	423
QY	361	gggaatgacaagtggtgcctgcgtatcctcgcgttggcttcttcgtgaacacccaaacgacg	420
Db	424	gggaatgacaagtggtgcctgcgtatcctcgcgttggcttcttcgtgaacacccaaacgacg	483
QY	421	ttaagatctggatcccaagaacgtggaatgtgatacgaagggccctaacactgctcgtggt	480
Db	484	ttaagatctggatcccaagaacgtggaatgtgatacgaagggccctaacactgctcgtcgtg	543
QY	481	caacagacaacaccccaagaagacctgggttcaactatgtgtgaagtctcccca	540
Db	544	caacagacaacaccccaagaagacctgggttcaactatgtgtgaagtctcccca	603
QY	541	attgtatagatatttccaatctccatctaaagaaggaacatattagctca-cctg	599
Db	604	A-TGTGAGATTTTCTTCAAGATCTCTCCATTATATGAAGGAAATATTTAGCTCAACCTG	662
QY	600	catagcaactggttagcaccaagactcagttactcttgagacac---atctcccaaga	656
Db	663	CATAGCACTGTTGACCAAGACTACGTTACTTGGAGACACACATCTCCCCCAAAAGC	722
QY	657	ggttgcttgtaga	670
Db	723	GGTGTGCTTGGCA	736

RESULT	7				
AM025115/c					
LOCUS	AM025115	604 bp	mRNA	linear	EST 09-MAR-2000
DEFINITION	similar to SW:WTR1_BAT Q62718 NEUROTRILAMIN PRECURSOR ;, mRNA				
ACCESSION	AM025115				
VERSION	AM025115.1	GI:5878645			
KEYWORDS	EST.				
SOURCE	human.				

Query Match	Best Local Similarity	Matches 625; Conservative	Score 549; DB 10; Length 661;	Pred. No. 4.2e-69;	Mismatches 0; Mismatches 0; Indels 36; Gaps 4
Query 657	ggttgcttgggtggtgaaagaaatcttgaatattgaagcattaccggagagcagtc	116	116	116	116
Db 1	GGTTGGCTTTGGAGTGAAGCAATATCTTGGAAATTCAGGGCATCCCGGAGCACTC	60	60	60	60
Query 717	aggagactcagagctgagctgctcccaatactgctcgccgcccgtgtgacgagatgaa	776	776	776	776
Db 61	AGGGAGCATCAGAGTGCAGTGCCTCCCATGACTGTCGCCCGCTGTGAGGAGTGA	120	120	120	120
Query 777	gtgtcaactgtgaactatccaccataatctcagaagaacaaagtgaatgaagtgtcccgctgg	836	836	836	836
Db 121	GGTCACCCGTGAACATATCCACCATATCATCTTTTCAGAAAGCCAGAGGTGACGAGTCCCGTGGG	180	180	180	180
Query 837	acaaaggagagactctgagctggtgaaagccctcagagctccctcagagaatttcagtgta	896	896	896	896
Db 181	ACAAAGGGGAGACTCTCAGTGTAAAGTCCCTCAGCAGTTCAGTGGTA	240	240	240	240
Query 897	caaggatgacaaagactgattgaaagaaagaggggtgaagtgtgaaacaagacctt	956	956	956	956
Db 241	CAAGGATGACAAAGACTGATTTGAAGAAAGAAAGGGGTGAAGTGAAGTGAAGCAAGACTTT	300	300	300	300
Query 957	cccttcaaaactatcttcttcaatgctctcgaactgactatggaaactacacttgct	1016	1016	1016	1016
Db 301	CCCTTCAAACTCATCTTTCTTCATGCTCTGAAACATGACTATAGGGAATCATCACTTGGCT	360	360	360	360
Query 1017	gagcttcacaaagcttggtgacacccaatgccaagatcatgctatctt-----	1062	1062	1062	1062
Db 361	GGCTTCACAACAGCTGGGCCACCAACCAAGCCAGCATATCTATTGTAAGTGAAGAAACTAC	420	420	420	420
Query 1063	-----gttccagagcgccgtcaagctgaggtgagcaacgagcagctgag	1103	1103	1103	1103
Db 421	AGCCTTGACCCCTTGGAAAGTGCAGAGGCCGCTGAGGAGGATGAGCAAGGGAGCTGAG	480	480	480	480
Query 1104	gagggcaagctgctgtgtgtgtctcctcttctgtcttgcacctgctcttcaaatgtt	1163	1163	1163	1163
Db 481	GAGGGCAGAGCTGCTGTGGCTGTGCTCTCTTCTGTTCACCTGCTCTTCTTCAAAATTTTG	540	540	540	540
Query 1164	atgtgagtgcacttcccaaccgccgggaaaggtctgcgcacacac--acacacacacaaac	1222	1222	1222	1222
Db 541	AGTGTAGTGCACACTTCCCAACCCGGGAAAGGCTCCGCGCACACGACACCAACACAC	600	600	600	600
Query 1223	ag--caatgcaaacaccgacagaaacc--aatagatatatacaaatgaaattagaagaac	1280	1280	1280	1280
Db 601	AGCCATATGGCAACACGACAGCAACCAATCATGATATATCAAAATGAATTAAGAAAGAAC	660	660	660	660
Query 1281	1161	1161	1161	1161	1161
Db 661	A 661	A 661	A 661	A 661	A 661

RESULT 10

LOCUS B1548566 580 bp mRNA linear EST 05-SEP-2001

DEFINITION 603189502F1 NIH_MGC_95 Homo sapiens CDNA clone IMAGE:5260753 5',

RNA sequence. B1548566

BASE COUNT 190 a 175 c 171 g 125 t

ORIGIN

/tissue-type="amelanotic melanoma, cell line"

/lab_host="DH10B (phage-resistant)"

/note="Organ: skin; Vector: pOT87; Site.1: XhoI; Site.2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."


```

Db 115 ATACGAGAAAGAAAG - AAAAAAAAAACCACTGACAAAAAAGAAAGAAAGA 173
|||
Qy 121 aaaaatcatgaataaccatccagccaaatgcaattatctcttgggaatcttc 180
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Db 174 AAAAAATCATGAAAACCATTCAGCCAAAAATGCAATTCATCTCTTGGCAATCTTC 233
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Qy 241 tccccaaagctatgagcaacgtgacgtgacgagggagagcgccacctcagctgc 300
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Db 354 ACTATTGACAAACGGGTACCCGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 413
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Qy 361 gggaaatgacaagtgtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgctgt 420
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Db 414 GGAATGACAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 472
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Qy 421 taagcatcgatccagacgctgagctgtgctgtgctgtgctgtgctgtgctgtgct 480
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Db 473 TACGATCGAGATCGAAGCTGATGTATGACAGAGGAGCCCTTACACCTCTCGGTG 532
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Qy 481 cagacagacaccccaagacaccttaaggtccacctctgtgcaatctctccaa 540
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Db 533 CAGACAGCAAAACAAAGACCTTGAAGGTCCACCTCATTTGCAAGTATCTCCAAA 592
|||
Qy 541 at-tgtagagattcttcagatatctccaatgaagagga 580
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Db 593 ATAGGTAGAGATTCTTCAGATATCTCCATTAATGAAGGA 633
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RESULT 12

BE263639 545 bp mRNA linear EST I3-JUL-2000

LOCUS 601192064F1 NIH_MGC_7 Homo sapiens cDNA IMAGE:536127 5',

DEFINITION mRNA sequence.

ACCESSION BE263639

VERSION BE263639.1 GI:9137183

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 545)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Plate: LICM217 row: p column: 16
High quality sequence stop: 545.

FEATURES

source

1. 545

Location/Qualifiers

1. 545

Organism="Homo sapiens"

gb_xref="taxon:9606"

/clone="IMAGE:3536127"

/clone_lib="NIH_MGC_7"

/tissue_type="small cell carcinoma"

/cell_line="MGC3"

/lab_host="DH10B (phage-resistant)"

/note="Organ: lung; Vector: pORF7; Site: 1: XhoI; Site: 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(6). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."

```

BASE COUNT 162 a 134 c 144 g 105 t
ORIGIN
Query Match 31.4%; Score 531.4; DB 10; Length 545;
Best Local Similarity 99.6%; Pred. No. 1.4e-66;
Matches 543; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
Qy 400 ctgagcaacacccaaacgcaagatcagatcagacgctgagatgctgagag 459
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Db 1 CTGAGCAACACCCAAACCCAGTACAGATCGAGATCCAGAAAGCTGATGATGACAG 60
|||
Qy 460 gggccctaacctgtctgtgctgagacagcaaccccaaacacaccttaagctccac 519
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Db 61 GGGCCCTTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
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Qy 520 attgtgcaagatctcccaaatattgagatcttccatcattcattcattcattcatt 579
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Db 121 ATTGTCAAGTATCTCCCAAAATTGTAGATTTCTTCAGATATCTCATTAATGAGGG 180
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Qy 580 aacaatataagctcctcactgcatagacactgtagacagacgctcagttacttgaga 639
|||
Db 181 AACAAATATTAGCTCACCCTGATGACAACTGATGACAGAGCCTACGTTACTTGAGA 240
|||
Qy 640 cacatctctcccaaacgctgttgctgtgtgagtgagagagatcttggaatcagagc 699
|||
Db 241 CACATTTCTCCCAAAAGCGTTGGCTTTGTGAGTGAAGACGATCTTGGAATTCAGGGC 300
|||
Qy 700 atcacccggagacagtcagagagactagagctgcaatgctcctcaatgacgtgacgc 759
|||
Db 301 ATCACAGGAGGACAGTACAGGAGCTAGAGTGCATGCTCATATGAGTGGCGCGGCC 360
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Qy 760 gtgtgacgagagagaaaggtcaccgtgaaactatccacatcattcagaagcgaaggt 819
|||
Db 361 GTGTGACGAGAGTAAAGGTACCCGTAACCTATCCACATCATTTGCAAGCAAGGCT 420
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Qy 820 aacaggtgtccctgtggagacaaagggacacgtgagctgagctcagagctccctca 879
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Db 421 ACAAGGTGTCCTCCGTGGGACAAAGGGGACATGCTGAGTGAAGCTTAGCGAGTCCCTCA 480
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Qy 880 gaagaattccagtgtagcaagatgacaaagactgattgaagaa-9aaaggggtgaa 938
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Db 481 GCAATATTCAGTGTACAGAGATGACAAAGACTGATGAGGAAACGAAGGGGTGA 540
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Qy 939 agtgg 943
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Db 541 AGTGG 545
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RESULT 13

B1598759 754 bp mRNA linear EST 07-SEP-2001

LOCUS 60324538F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5287832 5',

DEFINITION mRNA sequence.

ACCESSION B1598759

VERSION B1598759.1 GI:15491698

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 754)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabs-remail.nih.gov
Tissue Procurement: Miklos Palokovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiroaki Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LJML)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be

Age Group	Percentage of Respondents
18-29	85
30-39	75
40-49	80
50-59	70
60-69	75
70-79	70
80+	70

BASE COUNT	88 a	113 c	117 g	168 t
ORIGIN				

Search completed: July 11, 2002, 21:28:09
Job time: 10368 sec

Fri Jul 12 08:37:55 2002

us-09-700-397-2.rst

Page 12

GenCore version 4.5
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OM nucleic - nucleic search, using SW model

Run on: July 12, 2002, 00:32:21 ; Search time 418.18 Seconds

(Without alignments)
6816.544 Million cell updates/sec

Title: US-09-700-397-2

Perfect score: 1693
Sequence: 1 gtccttcagcaaacagtg.....aaaaaaaaaaaaaaaa 1693

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1156321 seqs, 841861299 residues

Total number of hits satisfying chosen parameters: 2312642

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Pending Patents, NA, New: *
1: /cgn2_6/pdata/2/pna/PCT_NEW_COMB.seq:*
2: /cgn2_6/pdata/2/pna/US06_NEW_COMB.seq:*
3: /cgn2_6/pdata/2/pna/US07_NEW_COMB.seq:*
4: /cgn2_6/pdata/2/pna/US08_NEW_COMB.seq:*
5: /cgn2_6/pdata/2/pna/US09_NEW_COMB.seq:*
6: /cgn2_6/pdata/2/pna/US10_NEW_COMB.seq:*
7: /cgn2_6/pdata/2/pna/US60_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	1661.4	98.1	1679	5	US-09-978-403A-522 Sequence 522, App
2	1661.4	98.1	1679	5	US-09-978-544A-522 Sequence 522, App
3	1661.4	98.1	1679	5	US-09-978-681A-522 Sequence 522, App
4	1661.4	98.1	1679	5	US-09-978-757A-522 Sequence 522, App
5	1661.4	98.1	1679	5	US-09-978-864A-522 Sequence 522, App
6	1661.4	98.1	1679	5	US-09-999-831A-522 Sequence 522, App
7	1661.4	98.1	1679	5	US-09-999-829A-522 Sequence 522, App
8	1661.4	98.1	1679	5	US-09-978-375A-522 Sequence 522, App
9	1661.4	98.1	1679	5	US-09-978-423A-522 Sequence 522, App
10	1661.4	98.1	1679	6	US-10-013-921A-522 Sequence 522, App
11	1661.4	98.1	1679	6	US-10-013-929A-522 Sequence 522, App
12	1661.4	98.1	1679	6	US-10-013-918A-522 Sequence 522, App
13	1661.4	98.1	1679	6	US-10-017-082A-522 Sequence 522, App
14	1661.4	98.1	1679	6	US-10-119-480-125 Sequence 522, App
15	1661.4	98.1	1679	6	US-10-121-049-375 Sequence 375, App
16	1661.4	98.1	1679	6	US-10-121-050-375 Sequence 375, App
17	1661.4	98.1	1679	6	US-10-121-053-375 Sequence 375, App
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23	1661.4	98.1	1679	6	US-10-121-057-375 Sequence 375, App
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ALIGNMENTS

RESULT 1

US-09-978-403A-522
Sequence 522, Application US/09978403A

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey J.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C17
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065111
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632

[illegible]

; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085573
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085704
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697
 ; PRIOR FILING DATE: 1998-05-15

Query Match 98.1%; Score 1661.4; DB 5; Length 1679;
 Best Local Similarity 99.9%; Pred. No 1.6e-273;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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 Db 485 cagaacagacaaccccaagaagcctctaggttcacactaatgtgtcaagtatcccca 544
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 QY 781 accgtgacatccacatatacttccaggaagccaaggtgtacaggtgtcccggtggagaa 840
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 Db 845 aaggagacactgcaatgtgaagcctcagcagtcctccctcagcgaattccagtgtaaaag 904
 QY 901 gatgacaagaagactgatgtgaaggaagaagggtgtgaaggtgaaacaagacacttctc 960

Db 905 gatgacaagaagactgatgtgaaggaagaagggtgtgaaggtgaaacaacgacacttctc 964
 QY 961 tcaaaatcatcttcttcaatgtctctgaacatgactatggaactacatctgtcgtgccc 1020
 Db 965 tcaaaatcatcttcttcaatgtctctgaacatgactatggaactacatctgtcgtgccc 1024
 QY 1021 tcccaagaagctgggccaacccaatgcagcatctgtattgtgtccaaagccgctgaac 1080
 Db 1025 tcccaagaagctgggccaacccaatgcagcatctgtattgtgtccaaagccgctgaac 1084
 QY 1081 gagggtgacaacggcagcttcgagagggcaggtgcgtctgcgtcgtcgtcgtcgtcgtc 1140
 Db 1085 gagggtgacaacggcagcttcgagagggcaggtgcgtctgcgtcgtcgtcgtcgtcgtc 1144
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 QY 1201 ccaccac 1260
 Db 1205 ccaccac 1264
 QY 1261 caaatgaaattagaagaacaacacagctcatgtgagcagaatttgagggagggagaaag 1320
 Db 1265 caaatgaaattagaagaacaacacagctcatgtgagcagaatttgagggagggagaaag 1324
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 Db 1325 aatacttgggggggaaaggttttaaaaagaattgaaattgccttcgacatatta 1384
 QY 1381 ggtacaatgaggttttcttcttcccaacgggagaaagacacacacacacacacacacac 1440
 Db 1385 ggtacaatgaggttttcttcttcccaacgggagaaagacacacacacacacacacacac 1444
 QY 1441 ctgcgaagctgacgtgcacacacttctgtgcaggtgtgagcagaggtccacgctcctgc 1500
 Db 1445 ctgcgaagctgacgtgcacacacttctgtgcaggtgtgagcagaggtccacgctcctgc 1504
 QY 1501 ccccaagaggtgcccacagtggaacatctctgagcgtggtgcacatccaaatcaatagtc 1560
 Db 1505 ccccaagaggtgcccacagtggaacatctctgagcgtggtgcacatccaaatcaatagtc 1564
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RESULT 2
 ; US-09-978-544A-522
 ; Sequence 522, Application US/09978544A
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Bolstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gertlisen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C13
CURRENT APPLICATION NUMBER: us/09/978,544A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
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PRIOR APPLICATION NUMBER: 60/077649
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PRIOR APPLICATION NUMBER: 60/078004
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Query Match 98.1%; Score 1661.4; DB 5; Length 1679;
 Best Local Similarity 99.9%; Pred. No. 1.6e-273;

Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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RESULT 3
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Sequence 522, Application US/09978681A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Flivarov, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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? PRIOR FILING DATE: 1998-05-13
? PRIOR APPLICATION NUMBER: 60/085582
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? PRIOR FILING DATE: 1998-05-15

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Query Match          98.1%; Score 1661.4; DB 5; Length 1679;
Best Local Similarity 99.9%; Pred. No. 1.6e-273;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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RESULT 5
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Sequence 522, Application US/09978564A

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen
APPLICANT: Pong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillen, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Peoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C25
CURRENT APPLICATION NUMBER: US/09/978,564A
PRIOR FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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/ PRIOR FILING DATE: 1998-05-15

Query Match      98.1% Score 1661.4; DB 5; Length 1679;
Best Local Similarity 99.9%; Pred. No. 1.6e-273;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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GENERAL INFORMATION:			
APPLICANT: Ashkenazi, Avi			
APPLICANT: Baker Kevin P.			
APPLICANT: Botstein, David			
APPLICANT: Desnuyers, Luc			
APPLICANT: Eaton, Dan			
APPLICANT: Ferrara, Napoleon			
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APPLICANT: Kijavlin, Ivar J.			
APPLICANT: Kuo, Sophia S.			
APPLICANT: Napier, Mary A.			
APPLICANT: Pan, James;			
APPLICANT: Paoni, Nicholas F.			
APPLICANT: Roy, Margaret Ann			
APPLICANT: Shelton, David L.			
APPLICANT: Stewart, Timothy A.			
APPLICANT: Tumas, Daniel			
APPLICANT: Williams, P. Mickey			
APPLICANT: Wood, William I.			
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic			
FILE REFERENCE: P2630P1C68			
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CURRENT FILING DATE: 2002-03-25			
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QY 1381 gtiacaatgtagtttcttcttccaaacgggaagaacacacacacccgggtgacacca 1440
Db 1385 gtiacaatgtagtttcttcttccaaacgggaagaacacacacacccgggtgacacca 1444
QY 1441 ctgcaagctgcatcgtgcaacactcttctgtgctcagttgtggcagaaggtcagctctctg 1500
Db 1445 ctgcaagctgcatcgtgcaacactcttctgtgctcagttgtggcagaaggtcagctctctg 1504
QY 1501 cccacagaatgccccacagctgggaacattctgagctggtccatcccaatcaatcagtc 1560
Db 1505 cccacagaatgccccacagctgggaacattctgagctggtccatcccaatcaatcagtc 1564
QY 1561 atagagaacgaacgaatgagacctccggcccaagcggtgctggtggcactttgtag 1620
Db 1565 atagagaacgaacgaatgagacctccggcccaagcggtgctggtggcactttgtag 1624
QY 1621 actgtgcaccacagcggtgtgtgttgaacgtgaaatlaaaagaagcaaaaaaa 1675
Db 1625 actgtgcaccacagcggtgtgtgttgaacgtgaaatlaaaagaagcaaaaaaa 1679

RESULT 7
US-09-999-829A-522
; Sequence 522, Application US/0999829A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Thomas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC61
; CURRENT APPLICATION NUMBER: US/09/999,829A
; CURRENT FILING DATE: 2002-03-19
; NUMBER OF SEQ. ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 522

LENGTH: 1679
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-09-999-829A-522

Query Match 96.18; Score 1661.4; DB 5; Length 1679;
 Best local Similarity 99.9%; Pred. No. 1.6e-273;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

OY 1 gtcttcagcaaaacagtgatgatttaattctcttcgcaaaagcttgagaagacacatct 60
 DB 6 gtcttcagcaaaacagtgatgatttaattctcttcgcaaaagcttgagaagacacatct 65
 OY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
 DB 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
 OY 121 aaaaaaataatgaataacacatccagccaaaatgacaaattctatctcttggcaatcttc 180
 DB 125 aaaaaaataatgaataacacatccagccaaaatgacaaattctatctcttggcaatcttc 184
 OY 181 acgggctgtgctgtctgtctgtcttcacaaagagtgccctgtgcagcagcagatgcccac 240
 DB 185 acgggctgtgctgtctgtctgtcttcacaaagagtgccctgtgcagcagcagatgcccac 244
 OY 241 tccccaaagctatgagcaacgctgacgctgcaggggagggagcgcacccctcaagctgc 300
 DB 245 tccccaaagctatgagcaacgctgacgctgcaggggagggagcgcacccctcaagctgc 304
 OY 301 acatattgacaacgggtgacacccgggtggtgctgtcttaaacccgacacacacacacacac 360
 DB 305 acatattgacaacgggtgacacccgggtggtgctgtcttaaacccgacacacacacacacac 364
 OY 361 gggaatgacaagtggtgccttgatcctcgctgtgctgtccttcgagaacacacacacacacac 420
 DB 365 gggaatgacaagtggtgccttgatcctcgctgtgctgtccttcgagaacacacacacacacac 424
 OY 421 tacagcatcgagatccagaacgctgagatgctgataagagagggcccttaacacctgtcgtg 480
 DB 425 tacagcatcgagatccagaacgctgagatgctgataagagagggcccttaacacctgtcgtg 484
 OY 481 cagacagacaac 540
 DB 485 cagacagacaac 544
 OY 541 attgtagagattcttcagatctcatttaataatgaagaagaacacacacacacacacacac 600
 DB 545 attgtagagattcttcagatctcatttaataatgaagaagaacacacacacacacacacac 604
 OY 601 atagcaactggtagaccagagcctaagctgacttgagagacacacacacacacacacacac 660
 DB 605 atagcaactggtagaccagagcctaagctgacttgagagacacacacacacacacacacac 664
 OY 661 ggcttggtagtggaagagcaatctcttggaattcagggcaccacccgggagcagctaggg 720
 DB 665 ggcttggtagtggaagagcaatctcttggaattcagggcaccacccgggagcagctaggg 724
 OY 721 gactacagtgagtgctcctccaatgagctgacggcccgctggtacggaagaagagctgc 780
 DB 725 gactacagtgagtgctcctccaatgagctgacggcccgctggtacggaagaagagagctgc 784
 OY 781 accgtgaactatccac 840
 DB 785 accgtgaactatccac 844
 OY 841 aaggagacacctgcagctgtggaagcctaagcagcctccctaagaagaattccacgtgtacaag 900
 DB 845 aaggagacacctgcagctgtggaagcctaagcagcctccctaagaagaattccacgtgtacaag 904
 OY 901 gatgacaaaagactgatgtaaggaagaagaagggtgaaagtggaaagacacacacacacacac 960
 DB 905 gatgacaaaagactgatgtaaggaagaagaagggtgaaagtggaaagacacacacacacacac 964

OY 961 tcaaacatcatcttcttaactgctctcgaacatgacatggaagacacacacacacacacacac 1020
 DB 965 tcaaacatcatcttcttaactgctctcgaacatgacatggaagacacacacacacacacacac 1024
 OY 1021 tccacaagctggtgccaac 1080
 DB 1025 tccacaagctggtgccaac 1084
 OY 1081 gaagttagcaacagcagctgaggaagggcagcgtcgtctgtcgtcgtcgtcgtcgtcgtcgtc 1140
 DB 1085 gaagttagcaacagcagctgaggaagggcagcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtc 1144
 OY 1141 ttgacatctctcctaacttttgaatgagtgagtgacattccacaccccggaagagctgcgcg 1200
 DB 1145 ttgacatctctcctaacttttgaatgagtgagtgacattccacaccccggaagagctgcgcg 1204
 OY 1201 ccac 1260
 DB 1205 ccac 1264
 OY 1261 caaatgaatttagaagaac 1320
 DB 1265 caaatgaatttagaagaac 1324
 OY 1321 aatacttggggggaagaagtttaaaaaagaattgaaattgcttgcagatatla 1380
 DB 1325 aatacttggggggaagaagtttttaaaaaagaattgaaattgcttgcagatatla 1384
 OY 1381 gttacaaatgagtttcttcttcccaacggggaagaacacacacacacacacacacacacac 1440
 DB 1385 gttacaaatgagtttcttcttcccaacggggaagaacacacacacacacacacacacacac 1444
 OY 1441 ctgacagctgacatgac 1500
 DB 1445 ctgacagctgacatgac 1504
 OY 1501 cccacagagtgccccac 1560
 DB 1505 cccacagagtgccccac 1564
 OY 1561 atagagacgaagaatgagac 1620
 DB 1565 atagagacgaagaatgagac 1624
 OY 1621 acgtgtccac 1675
 DB 1625 acgtgtccac 1679

RESULT 8
 US-09-978-375A-522
 Sequence 522, Application US/09978375A
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kijavini, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.

```

; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC24
; CURRENT APPLICATION NUMBER: US/09/978,375A
; CURRENT FILING DATE: 2002-04-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ. ID NOS: 624
; SEQ. ID NO 522
; LENGTH: 1679
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-375A-522

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Query Match          98.1%; Score 1661.4; DB 5; Length 1679;
Best Local Similarity 99.9%; Pred. No. 1.6e-273;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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QY 1 gtccttcgcaaaacgttgatttaattccttccttcgcaaaagcttgagcaaccacatct 60
DB 6 gtccttcgcaaaacgttgatttaattccttccttcgcaaaagcttgagcaaccacatct 65
QY 61 atcagaaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
DB 66 atcagaaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
QY 121 aaaaaatcatgaaacacatccagccaaatgacacattctctcttggcaattctc 180
DB 125 aaaaaatcatgaaacacatccagccaaatgacacattctctcttggcaattctc 184
QY 181 acgggctgctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgt 240
DB 185 acgggctgctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgt 244
QY 241 ttccccaagctatgacaaactgacggtccggaagggaagggaagggaagggaagggaagg 300
DB 245 ttccccaagctatgacaaactgacggtccggaagggaagggaagggaagggaagggaagg 304
QY 301 actattgcaacccgggtccacccgggtggtggtggtggtggtggtggtggtggtggtg 360
DB 305 actattgcaacccgggtccacccgggtggtggtggtggtggtggtggtggtggtggtg 364
QY 361 gggaaatgcaagtgatgctgtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgct 420
DB 365 gggaaatgcaagtgatgctgtgctgtgctgtgctgtgctgtgctgtgctgtgctgtgct 424
QY 421 tacagatcogagatccagaaactgagtgtatgacgaagggaagggaagggaagggaagg 480
DB 425 tacagatcogagatccagaaactgagtgtatgacgaagggaagggaagggaagggaagg 484
QY 481 cagacagacaaaccccaaaagacgttaggttccactctcttcttgcaagtattcccaaa 540
DB 485 cagacagacaaaccccaaaagacgttaggttccactctcttcttgcaagtattcccaaa 544
QY 541 attgtagagattcttcagatatctccatttaattgaagggaagaatttgaccttcacgtg 600
DB 545 attgtagagattcttcagatatctccatttaattgaagggaagaatttgaccttcacgtg 604
QY 601 atagcaactggttagaccagagcctacggttacttgagacaacatctctccaaagcgtt 660
DB 605 atagcaactggttagaccagagcctacggttacttgagacaacatctctccaaagcgtt 664
QY 661 ggccttgtagagtagaagcaatacttggaatttagagagcctcccggaagagcgaagg 720
DB 665 ggccttgtagagtagaagcaatacttggaatttagagagcctcccggaagagcgaagg 724

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QY 721 gactcagatgacgtgctcctcaatgacgtgagccgcgcgtgtgtacggaagtaagtc 780
DB 725 gactcagatgacgtgctcctcaatgacgtgagccgcgcgtgtgtacggaagtaagtc 784
QY 781 accgtgaactatccacatacatcttcagaagccaagggtacaggtgtcccggtggaca 840
DB 785 accgtgaactatccacatacatcttcagaagccaagggtacaggtgtcccggtggaca 844
QY 841 aagggaactcgaagtgtagcctccagcaggtccctccagcaagaattccagtgtagaag 900
DB 845 aagggaactcgaagtgtagcctccagcaggtccctccagcaagaattccagtgtagaag 904
QY 901 gatgcaaaagactcgtatgaaggaagaagggtggaagtggaaacagacactctctc 960
DB 905 gatgcaaaagactcgtatgaaggaagaagggtggaagtggaaacagacactctctc 964
QY 961 tcaaacatcatctcttcataatgtctctgacacttggaacttggaacttgctgtgccc 1020
DB 965 tcaaacatcatctcttcataatgtctctgacacttggaacttggaacttgctgtgccc 1024
QY 1021 tccaaacagctgggccaacccaatgccaagcatatgctattgttccagggcgcgtacgc 1080
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QY 1081 gaggtgagcaacggcagcttgaaggaaggcaggtcgtctgctgtcctctctgtgct 1140
DB 1085 gaggtgagcaacggcagcttgaaggaaggcaggtcgtctgctgtcctctctgtgct 1144
QY 1141 ttgcaactgtcttccaaattttagttagtgcacttccccaacccgggaaggcgtgcgc 1200
DB 1145 ttgcaactgtcttccaaattttagttagtgcacttccccaacccgggaaggcgtgcgc 1204
QY 1201 ccaacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1260
DB 1205 ccaacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1264
QY 1261 caatgaaatttagaagaacacacacacacacacacacacacacacacacacacacacac 1320
DB 1265 caatgaaatttagaagaacacacacacacacacacacacacacacacacacacacacac 1324
QY 1321 aatacttggggggaagaaagttttaaaagaattgaaatgtccttgagatatta 1380
DB 1325 aatacttggggggaagaaagttttaaaagaattgaaatgtccttgagatatta 1384
QY 1381 ggtacaatggaggtttctttcccaacggggaagaacacacacacacacacacacacac 1440
DB 1385 ggtacaatggaggtttctttcccaacggggaagaacacacacacacacacacacacac 1444
QY 1441 ctgcaagctgcatcgttgcacacctcttgggtgcacagtgggcaagggtcagcctctg 1500
DB 1445 ctgcaagctgcatcgttgcacacctcttgggtgcacagtgggcaagggtcagcctctg 1504
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DB 1505 cccacagagctcccccacagctggaacatcttgagctggtccatcccaattcaatcagtc 1564
QY 1561 atagagacgaacagaatgagacacttcggcccaacagctgggctggtgagcttgtag 1620
DB 1565 atagagacgaacagaatgagacacttcggcccaacagctgggctggtgagcttgtag 1624
QY 1621 actgtgccacacagcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1675
DB 1625 actgtgccacacagcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1679

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RESULT 9
US-09-978-423A-522
; Sequence 522, Application US/09978423A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David

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APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Hong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Thomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC21
CURRENT APPLICATION NUMBER: US/09/978,423A
CURRENT FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
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PRIOR FILING DATE: 1998-03-12
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PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-03-25
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PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-27

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PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
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PRIOR FILING DATE: 1998-03-31
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PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083554
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083558

Query Match	98.1%;	Score 1661.4;	DB 5;	Length 1679;
Best Local Similarity	99.9%;	Pred. No. 1.6e-273;		
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				Gaps 1;
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Db	6	gtccttcagcaaacagctgatttaattctcttcgacaaagcttgagcaacacaaatct	65	
QY	61	atcaggaagaagaagaagaaaaaacccgaacccgtgacaaaaagaagaagaagaaga	120	
Db	66	atcaggaagaagaagaagaag-aaaaaacccgaacccgtgacaaaaagaagaagaaga	124	
QY	121	aaaaaatacatgaaaacccatccaccccaaaaatgacatacttactctctgggcaatctc	180	
Db	125	aaaaaatacatgaaaacccatccaccccaaaaatgacatacttactctctgggcaatctc	184	
QY	181	acgggctgctgctctctgtctcttccaaaggagtcccgctgcgaagcgagatgcccac	240	
Db	185	acgggctgctgctctctgtctcttccaaaggagtgcgcgctgcgaagcgagatgcccac	244	
QY	241	ttccccaagctatgagcaaacgctgacggtccgcaaggaggagagcgccacccctaagtgc	300	
Db	245	ttccccaagctatgagcaaacgctgacggtccgcaaggaggagagcgccacccctaagtgc	304	

[illegible]

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|||||
Db 1385 ggtacaaatggagtttcttcccaacgggaagacacacagcaaccggcttggaccoca 1444
QY 1441 ctgcaagctgcacatcgtgaacacctttgtgccaagtgtgggaagggcttaagcctctcg 1500
|||||
Db 1445 ctgcaagctgcacatcgtgaacacctttgtgccaagtgtgggaagggcttaagcctctcg 1504
QY 1501 cccacagatgccccacagctgtgaacattctgagctgcgcacatcccaattcaatcagttcc 1560
|||||
Db 1505 cccacagatgccccacagctgtgaacattctgagctgcgcacatcccaattcaatcagttcc 1564
QY 1561 atagagacgaacagaatgagacacctccggcccaagcgttggcgtcgggacatttggtag 1620
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Db 1565 atagagacgaacagaatgagacacctccggcccaagcgttggcgtcgggacatttggtag 1624
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Db 1625 actgtgccacacggcgtgtgttgtgaaacgtgaataaagacgcaaaaaa 1679

RESULT 10
US-10-013-921A-522
Sequence 522, Application US/10013921A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C84
CURRENT APPLICATION NUMBER: US/10/013,921A
PRIOR FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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 PRIOR APPLICATION NUMBER: 60/085697
 PRIOR FILING DATE: 1998-05-15

Query Match 98.1%; Score 1661.4; DB 6; Length 1679;
 Best Local Similarity 99.9%; Pred. No. 1; 6e-273;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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 QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
 Db 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
 QY 121 aaaaaaatcatgaaaacatccagcccaaaatgcacattctctcttggaacttc 180
 Db 125 aaaaaaatcatgaaaacatccagcccaaaatgcacattctctcttggaacttc 184
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 Db 185 acggggcgtgctgtctgtctcttccaagagtgcccgtagcgagagatgcacac 244
 QY 241 ttccccaagctatgacaacgtgacgttcggcagggggaagcgccacccctcaggtgc 300
 Db 245 ttccccaagctatgacaacgtgacgttcggcagggggaagcgccacccctcaggtgc 304
 QY 301 actatgtgcaacccggtgcacccgggtggtgcgtgcctaaacggcgacccatctatgct 360
 Db 305 actatgtgcaacccggtgcacccgggtggtgcgtgcctaaacggcgacccatctatgct 364
 QY 361 gggaatgcaagtgctgtctgtgaltcctcggtgtctcttcgcaacaccccaacgag 420
 Db 365 gggaatgcaagtgctgtctgtgaltcctcggtgtctcttcgcaacaccccaacgag 424
 QY 421 tacagcatcgagatcccaagacgtgaltgltatgacgaaggcccttaacctgctcggtg 480
 Db 425 tacagcatcgagatcccaagacgtgaltgltatgacgaaggcccttaacctgctcggtg 484
 QY 481 caggaagcaaccccaagacgtgaltgltatgacgaaggcccttaacctgctcggtg 540
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Db      1625 actggtcacccagcgtgtgttctgaacgtgaataaaagagcaaaaaaa 1679
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RESULT      12
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; Sequence 522, Application US/10013918A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnuyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kiljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James:
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC77
; CURRENT APPLICATION NUMBER: US/10/013,918A
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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Query Match 98.1%; Score 1661.4; DB 6; Length 1679;
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Matches 1677; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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82	PRIOR FILING DATE: 1998-05-13
83	PRIOR APPLICATION NUMBER: 60/085828
84	PRIOR FILING DATE: 1998-05-13
85	PRIOR APPLICATION NUMBER: 60/085828
86	PRIOR FILING DATE: 1998-05-13
87	PRIOR APPLICATION NUMBER: 60/085828
88	PRIOR FILING DATE: 1998-05-13
89	PRIOR APPLICATION NUMBER: 60/085828
90	PRIOR FILING DATE: 1998-05-13
91	PRIOR APPLICATION NUMBER: 60/085828
92	PRIOR FILING DATE: 1998-05-13
93	PRIOR APPLICATION NUMBER: 60/085828
94	PRIOR FILING DATE: 1998-05-13
95	PRIOR APPLICATION NUMBER: 60/085828
96	PRIOR FILING DATE: 1998-05-13
97	PRIOR APPLICATION NUMBER: 60/085828
98	PRIOR FILING DATE: 1998-05-13
99	PRIOR APPLICATION NUMBER: 60/085828
100	PRIOR FILING DATE: 1998-05-13

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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
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; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

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Query Match      98.18; Score 1661.4; DB 6; Length 1679;
Best Local Similarity 99.98; Pred. No. 1,66-273;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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QY 1 gtcttcagcaaacagtgatttaattctcttcagcaagcttgagagcaacacatct 60
D 6 gtcttcagcaaacagtgatttaattctcttcagcaagcttgagagcaacacatct 65
QY 61 atcaggaagaagaagaagaagaagaacacgaacacgaagaagaagaagaagaaga 120
D 66 atcaggaagaagaagaagaagaagaagaacacgaacacgaagaagaagaagaaga 124
QY 121 aaaaaatcatgaaaacacatccagcgaagaagaagaagaagaagaagaagaagaaga 180
D 125 aaaaaatcatgaaaacacatccagcgaagaagaagaagaagaagaagaagaagaaga 184
QY 181 acggagctgctgctgctgctgcttcacgaagagccgctgctgctgctgctgctgct 240
D 185 acggagctgctgctgctgctgcttcacgaagagccgctgctgctgctgctgctgct 244
QY 241 ttcccaagctatgagcaacgtgacgctccggcagggggagggagccacccctcaggtgc 300
D 245 ttcccaagctatgagcaacgtgacgctccggcagggggagggagccacccctcaggtgc 304
QY 301 actatggaacacgggctacccgggtgctgctgctgctgctgctgctgctgctgctgct 360
D 305 actatggaacacgggctacccgggtgctgctgctgctgctgctgctgctgctgctgct 364
QY 361 ggggaatgacaagtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 420
D 365 ggggaatgacaagtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 424
QY 421 taacagatcgagatccaggaacgtggtatgtatgacgagggcccttaacccctgctgct 480
D 425 taacagatcgagatccaggaacgtggtatgtatgacgagggcccttaacccctgctgct 484
QY 481 caacagcaaacacacacacacacacacacacacacacacacacacacacacacacacacac 540
D 485 caacagcaaacacacacacacacacacacacacacacacacacacacacacacacacacac 544
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QY 601 atagcaacgtgtagacagagcctacgttacttggaacacacacacacacacacacacacac 660
D 605 atagcaacgtgtagacagagcctacgttacttggaacacacacacacacacacacacacac 664
QY 661 ggccttgtagtagagagacgaactacgtgaattcagggcagccacccgggagcagctgaagc 720
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QY 721 gactacagtgcaagtgctcccaatgaacgtgcccgcgcgcgtgtagcaggaagtaaggtgc 780
D 725 gactacagtgcaagtgctcccaatgaacgtgcccgcgcgcgtgtagcaggaagtaaggtgc 784
QY 781 accgtgaactatccacacacacacacacacacacacacacacacacacacacacacacacacac 840

```

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D 785 accgtgaactatccacacacacacacacacacacacacacacacacacacacacacacacacac 844
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D 845 aagggagacacgtgcaatgtagagcctcaagcagctccctcaagagaattccagtgtagcaag 904
QY 901 gatgacaagaagcctattgtagaagaagaagggtggaagtggaagaacacacacacacacacac 960
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QY 961 tcaaaactatcttccatgctctgacacatgacatgaggaactacacacacacacacacacacac 1020
D 965 tcaaaactatcttccatgctctgacacatgacatgaggaactacacacacacacacacacacac 1024
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D 1145 ttgacacgttcttcaaatlttgatgtagtgacacttccacccgggaaggctgcgcg 1204
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D 1205 ccacccacccacccacacacacacacacacacacacacacacacacacacacacacacacacacac 1264
QY 1261 caaatgaattgagaagaacacacacacacacacacacacacacacacacacacacacacacacacac 1320
D 1265 caaatgaattgagaagaacacacacacacacacacacacacacacacacacacacacacacacacac 1324
QY 1321 aatacttgagggggaagaagttttaaagaagaattgaaattgcttccagatattta 1380
D 1325 aatacttgagggggaagaagttttaaagaagaattgaaattgcttccagatattta 1384
QY 1381 gttacaatgagatttcttcccaacggggaagaacacacacacacacacacacacacacacacacacac 1440
D 1385 gttacaatgagatttcttcccaacggggaagaacacacacacacacacacacacacacacacacacac 1444
QY 1441 ctgcaagctgcaacgtgcaacacacacacacacacacacacacacacacacacacacacacacacacac 1500
D 1445 ctgcaagctgcaacgtgcaacacacacacacacacacacacacacacacacacacacacacacacacac 1504
QY 1501 cccacagagtgcccccacgtggaacattctgagctgagccatcccaaatcaatcaagctcc 1560
D 1505 cccacagagtgcccccacgtggaacattctgagctgagccatcccaaatcaatcaagctcc 1564
QY 1561 atagagcaacagaaatgagacacacacacacacacacacacacacacacacacacacacacacacacac 1620
D 1565 atagagcaacagaaatgagacacacacacacacacacacacacacacacacacacacacacacacacac 1624
QY 1621 actgtgccacacacacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1675
D 1625 actgtgccacacacacacacacacacacacacacacacacacacacacacacacacacacacacacacac 1679

```

RESULT 14

US-10-119-480-125

Sequence 125, Application US/10119480

GENERAL INFORMATION:

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; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Watanabe, Colin L.

```

```

; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P350P1C1
; CURRENT APPLICATION NUMBER: US/10/119,480
; CURRENT FILING DATE: 2002-04-09
; NUMBER OF SEQ ID NOS: 246
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 125
; LENGTH: 1679
; TYPE: DNA
; ORGANISM: Homo Sapien
; US-10-119-480-125

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```

Query Match      98.1%, Score 1661.4; DB 6; Length 1679;
Best Local Similarity 99.9%; Pred. No. 1,6e-273;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

```

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QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
    |||||||
Db 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
QY 121 aaaaaatcagaacacatccagcgaacaaatgcaaatctatctcttgggaattctc 180
    |||||||
Db 125 aaaaaatcagaacacatccagcgaacaaatgcaaatctatctcttgggaattctc 184
QY 181 acggagctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtc 240
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Db 185 acggagctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtctgtc 244
QY 241 ttccccaagctatgacaacgtgacgtccggagggagagagcgacacccctcaggtgc 300
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QY 301 actattgacaacccgggtcaccgggtgctgtgctaaacccagcaccatctatgtct 360
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QY 361 gggaaatgacaagtggtcgtgtgctgtctgtctgtctgtctgtctgtctgtctgtc 420
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Db 365 gggaaatgacaagtggtcgtgtgctgtctgtctgtctgtctgtctgtctgtctgtc 424
QY 421 tacagcatcgagatccagaacgtgatatgacagaagggcccttacacctgtcgtgtg 480
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Db 425 tacagcatcgagatccagaacgtgatatgacagaagggcccttacacctgtcgtgtg 484
QY 481 cagaacagacaacacccaacaaagacactaggggtccacactcattgtgcaagtatctccaaa 540
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QY 541 attgtagaattctcttcagatatctccattaatgaaggagaaacatatagctactgtc 600
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Db 545 attgtagaattctcttcagatatctccattaatgaaggagaaacatatagctactgtc 604
QY 601 atagcaactgttagaccagagcctacggttacttgtagagacacatctcccaaaagcggt 660
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Db 605 atagcaactgttagaccagagcctacggttacttgtagagacacatctcccaaaagcggt 664
QY 661 ggcttcttgtagaagaacatcttgaatctgaaggaacaccccggaagcaatcaggg 720
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Db 665 ggcttcttgtagaagaacatcttgaatctgaaggaacaccccggaagcaatcaggg 724
QY 721 gactacagatgcagctctcccaatgaagtggtccggccggtgtgtacagagatgaagtc 780
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Db 725 gactacagatgcagctctcccaatgaagtggtccggccggtgtgtacagagatgaagtc 784
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Db 785 acgtggaactaccacacatattcacaacaaaggtacaggtgtcccggtgggacaa 844
QY 841 aagggaacactgcatggtgtaagctccagcagctccctccagcagtaattccatgttacaag 900
    |||||||
Db 845 aagggaacactgcatggtgtaagctccagcagctccctccagcagtaattccatgttacaag 904
QY 901 gatgacaagaagactgtatgaaggaagaaggggtgaagatgtgaacaacagacacttctc 960
    |||||||
Db 905 gatgacaagaagactgtatgaaggaagaaggggtgaagatgtgaacaacagacacttctc 964
QY 961 tcaaaactcatctcttcaatctgtctgtgaatctatctatctgtgaactacactgtcggtgc 1020
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Db 965 tcaaaactcatctcttcaatctgtctgtgaatctatctatctgtgaactacactgtcggtgc 1024
QY 1021 tccacaagctgtggccacacacacacacacacacacacacacacacacacacacacac 1080
    |||||||
Db 1025 tccacaagctgtggccacacacacacacacacacacacacacacacacacacacacac 1084
QY 1081 gaggtgagcaagcgacgtcgagggagggcaggtcgctgtgtgtgtgtgtgtgtgtgtgt 1140
    |||||||
Db 1085 gaggtgagcaagcgacgtcgagggagggcaggtcgctgtgtgtgtgtgtgtgtgtgtgt 1144
QY 1141 ttgcaactgtcttcaaatcttgaatgtgagtgccacttcccaacccgggaaggtgtgcg 1200
    |||||||
Db 1145 ttgcaactgtcttcaaatcttgaatgtgagtgccacttcccaacccgggaaggtgtgcg 1204
QY 1201 ccaccacacacacacacacacacacacacacacacacacacacacacacacacacacac 1260
    |||||||
Db 1205 ccaccacacacacacacacacacacacacacacacacacacacacacacacacacacac 1264
QY 1261 caaatgaaattagaagaacacacacacacacacacacacacacacacacacacacacac 1320
    |||||||
Db 1265 caaatgaaattagaagaacacacacacacacacacacacacacacacacacacacacac 1324
QY 1321 aatacttggggggaanaaagttttaaaaaaagaatgtgaatgtcctgtcagatattta 1380
    |||||||
Db 1325 aatacttggggggaanaaagttttaaaaaaagaatgtgaatgtcctgtcagatattta 1384
QY 1381 ggtacaatgagatttcttcttcccaacgggaagaacacacacacacacacacacacac 1440
    |||||||
Db 1385 ggtacaatgagatttcttcttcccaacgggaagaacacacacacacacacacacacac 1444
QY 1441 ctgcaagctgcatcgtgcaacactcttgtgtgcaggtgtggcagaaggtccagctctgt 1500
    |||||||
Db 1445 ctgcaagctgcatcgtgcaacactcttgtgtgcaggtgtggcagaaggtccagctctgt 1504
QY 1501 cccaagagtgcccccacgttggaacatcttgagcttgccatcccaatctcaatcagttcc 1560
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Db 1505 cccaagagtgcccccacgttggaacatcttgagcttgccatcccaatctcaatcagttcc 1564
QY 1561 atagagcgaacagaatgagaccttcggcccaagcgttgagcgtcggcgacattgtgtag 1620
    |||||||
Db 1565 atagagcgaacagaatgagaccttcggcccaagcgttgagcgtcggcgacattgtgtag 1624
QY 1621 actgtgcccacacagcggtgtgtgtgtgaacgttgaaatgaagaagcaaaaaaaa 1675
    |||||||
Db 1625 actgtgcccacacagcggtgtgtgtgtgaacgttgaaatgaagaagcaaaaaaaa 1679
    |||||||

```

```

RESULT 15
US-10-121-049-375
; Sequence 375, Application US/10121049
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.

```

APPLICANT: Sherwood, Steven
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P330R1C17
CURRENT APPLICATION NUMBER: US/10/121,049
PRIORITY FILING DATE: 2002-04-12
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 550
SEQ ID NO 375
LENGTH: 1679
TYPE: DNA
ORGANISM: Homo Sapien
US-10-121-049-375

Query Match 98.1%; Score 1661.4; DB 6; Length 1679;
Best Local Similarity 99.9%; Pred. No. 1.6e-273;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 gtcttcagcaaacagtgatttaattctcttgacaaagcttgagagcaacaatct 60
DB 6 gtcttcagcaaacagtgatttaattctcttgacaaagcttgagagcaacaatct 65
QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
DB 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
QY 121 aaaaatcatgaaacacatccagcccaaaaatgcaaatctatctcttctggcaatcttc 180
DB 125 aaaaatcatgaaacacatccagcccaaaaatgcaaatctatctcttctggcaatcttc 184
QY 181 acggggtctgctgtctgtctgtctcttcacaaagatgcccgtgcagcagagatgccacc 240
DB 185 acggggtctgctgtctgtctgtctcttcacaaagatgcccgtgcagcagagatgccacc 244
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QY 301 actatgaaacccgggtccacccgggtggtcgtgctaaaccgcaacacatcctatgct 360
DB 305 actatgaaacccgggtccacccgggtggtcgtgctaaaccgcaacacatcctatgct 364
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QY 421 tacagcatcgagatccgaacagtgatgtgtatgacagggcccttaccctcgtggt 480
DB 425 tacagcatcgagatccgaacagtgatgtgtatgacagggcccttaccctcgtggt 484
QY 481 cagacagcaaacacccaaagacccctaggtgtccacccatctgtgcaagatctcccaaa 540
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QY 661 ggccttgtagtgaagacgaatacttggaattcagggccatccacccggagcagtcaggg 720
DB 665 ggccttgtagtgaagacgaatacttggaattcagggccatccacccggagcagtcaggg 724

QY 721 gactacagtgcaagtgctctccaaatgaactggtccgcccgtgtacggaagtaaggttc 780
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QY 1141 ttgacactcttcttcaaatgtttgatgtgaggtccacttccaccggggaaggtcgcg 1200
DB 1145 ttgacactcttcttcaaatgtttgatgtgaggtccacttccaccggggaaggtcgcg 1204
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DB 1205 ccaaccacccacccacacacacagcaatgycacacacgcagcaacacacatcagatatata 1264
QY 1261 caaatgaaattagaagaacaacagctcatgaggaagaatttgaaggaaggaagaagaag 1320
DB 1265 caaatgaaattagaagaacaacagctcatgaggaagaatttgaaggaaggaagaagaag 1324
QY 1321 aatactttggggggaaaaagttttaaaaagaattgaaaattgaccttgacatatata 1380
DB 1325 aatactttggggggaaaaagttttaaaaagaattgaaaattgaccttgacatatata 1384
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DB 1385 gttacaatgagatttcttcttcccaacgggaagaacacacagcccgcttgagacca 1444
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DB 1625 actgtgccaccccggtgtgtgtgtgaaagctgaaataaaaaagggcaaaaaaaa 1679

Search completed: July 12, 2002, 00:32:57
Job time: 11080 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 12, 2002, 00:25:10 ; Search time 5033.45 Seconds

(without alignments)
7276.860 Million cell updates/sec

Title: US-09-700-397-2

Perfect score: 1693

Sequence: 1 gtcttcagcaaaacagctg.....aaaaaaaaaaaaaaaaaaaaa 1693

Scoring table: IDENTITY_NUC

Gapop 10.0 ; Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues

Total number of hits satisfying chosen parameters: 43959072

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_NA_Main:*

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2: /cgn2_6/ptodata/2/pna/US6006_COMB.seq:*
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2	1661.4	98.1	1679	17	US-09-380-138-522
3	1661.4	98.1	1679	34	US-09-918-585A-522
4	1661.4	98.1	1679	35	US-09-978-188A-522
5	1661.4	98.1	1679	36	US-09-978-189-522
6	1661.4	98.1	1679	36	US-09-978-191A-522
7	1661.4	98.1	1679	36	US-09-978-192-522
8	1661.4	98.1	1679	36	US-09-978-193A-522
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26	1661.4	98.1	1679	36	US-09-999-832A-522
27	1661.4	98.1	1679	36	US-09-999-833A-522
28	1661.4	98.1	1679	36	US-09-999-834A-522
29	1661.4	98.1	1679	37	US-10-002-796A-103
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Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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33	1661.4	98.1	1679	37	US-10-0244-45A-522	Sequence 522, App
34	1661.4	98.1	1679	37	US-10-0208-072-315	Sequence 315, App
35	1661.4	98.1	1679	37	US-10-066-193-103	Sequence 103, App
36	1661.4	98.1	1679	37	US-10-066-198-103	Sequence 103, App
37	1661.4	98.1	1679	37	US-10-066-203-103	Sequence 103, App
38	1661.4	98.1	1679	37	US-10-066-211-103	Sequence 103, App
39	1661.4	98.1	1679	37	US-10-066-269-103	Sequence 103, App
40	1661.4	98.1	1679	37	US-10-066-274-103	Sequence 103, App
41	1661.4	98.1	1679	37	US-10-066-494-103	Sequence 103, App
42	1661.4	98.1	1679	37	US-10-066-500-103	Sequence 103, App
43	1661.4	98.1	1679	37	US-10-084-056-55	Sequence 55, App
44	1625.8	96.0	2012	21	US-09-581-051-5	Sequence 5, April
45	1625.8	96.0	2012	36	US-09-965-212-5	Sequence 5, April

ALIGNMENTS

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RESULT 1
US-09-700-397-2
Sequence 2, Application US/09700397
GENERAL INFORMATION:
APPLICANT: Ono Pharmaceutical Co., Ltd.
TITLE OF INVENTION: Novel Polypeptides, cDNA encoding the same, and use of them
FILE REFERENCE: 061459
CURRENT APPLICATION NUMBER: US/09/700,397
CURRENT FILING DATE: 2001-01-05
PRIORITY APPLICATION NUMBER: JP 10-131815
PRIORITY FILING DATE: 1998-05-14
PRIORITY APPLICATION NUMBER: PCT/JP99/02485
PRIORITY FILING DATE: 1999-05-13
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 1693
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc-feature
OTHER INFORMATION: Clone OC001 derived from human brain
NAME/KEY: CDS
LOCATION: (130)..(1161)
NAME/KEY: sig_peptide
LOCATION: (130)..(213)
NAME/KEY: mat_peptide
LOCATION: (214)..()
US-09-700-397-2

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Query Match	100.0%;	Score 1693;	DB 28;	Length 1693;
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OY	121	aaaaaatccttcgagcgaataatctatctcttggcaattc	180
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RESULT 2

US-09-380-138-522
; Sequence 522, Application US/09380138
; GENERAL INFORMATION:
; APPLICANT: Wood, William I.
; APPLICANT: Goddard, Audrey
; APPLICANT: Gurney, Austin
; APPLICANT: Yuan, Jean
; APPLICANT: Baker, Kevin P.
; TITLE OF INVENTION: Novel polypeptides and Nucleic Acids Encoding the Same
; FILE REFERENCE: P2630RIE
; CURRENT APPLICATION NUMBER: US/09/380,138
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: PCT/US99/05028
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; PRIOR FILING DATE: 1998-04-29

Query Match	98.1%;	Score 1661.4;	DB 17;	Length 1679;
Best Local Similarity	99.98;	Pred. No. 1.2e-236;		
Matches 1673; Conservative	0;	Mismatches 1;	Indels 1;	Gaps 1;

QY	1	grecttccagcaaaacsgtvgatlttaatctctcttgcacaaagcttggagccaacatct	60
DB	6	gtctcttcagcaaaacsgtvgatlttaatctctcttgcacaaagcttggagccaacatct	65
QY	61	atccaggaaggaaggaagaaaaaacccggaaccttgcacaaaaaggaagaaagaga	120
DB	66	atccaggaaggaaggaagaaa-aaaaaacccgaaccttgcacaaaaaggaagaaagaga	124
QY	121	aaaaaatcatgaaaacccatccagccaaaatgccaattcatctcttgcggaattctc	180
DB	125	aaaaaatcatgaaaacccatccagccaaaatgccaaaatgccaattcatctcttgcggaattctc	184
QY	181	acgggagctgctgctctgtctctctccaaagagctccgtgacgcygagatgccaac	240
DB	185	acgggagctgctgctctgtctctctccaaagagctgctccgtgacgcygagatgccaac	244
QY	241	ttccccaaggtatgagcaacgttgcacgctccgcacagggggagagcgccacctcaggtgc	300
DB	245	ttccccaaggtatgagcaacgttgcacgctccgcacagggggagagcgccacctcaggtgc	304
QY	301	actatctgcaacccgggtctcacccgggtgcctctgacctataaacccgacacacctctatgct	360
DB	305	actatctgcaacccgggtctcacccgggtgcctctgacctataaacccgacacacctctatgct	364
QY	361	gggaatgtagcaagtggtgtgcttgatctccgctgagtgctctcttgagcaaccccaacgag	420
DB	365	gggaatgtagcaagtggtgtgcttgatctccgctgagtgctctcttgagcaaccccaacgag	424
QY	421	taagagatcagagatccagaagaacgttgatggttatagacagggcccttataacctgctcggtg	480
DB	425	taagagatcagagatccagaagaacgttgatggttatagagagggcccttataacctgctcggtg	484
QY	481	caagacagcaaaccccccacaaagacccctctagaggtctcaacctatgtgcaagtatctccaaa	540
DB	485	caagacagcaaaccccccacaaagacccctctagaggtctcaacctatgtgcaagtatctccaaa	544
QY	541	attgtagagatcttccagatatctcccaataatgaaagggaaacatatatgtgctccaccgc	600
DB	545	attgtagagatcttccagatatctcccaataatgaaagggaaacatatatgtgctccaccgc	604
QY	601	atgagcaacgttgaaacagagcgctacggttactcttgagagacacatctcccaaaaggtt	660
DB	605	atgagcaacgttgaaacagagcgctacggttactcttgagagacacatctcccaaaaggtt	664
QY	661	ggctctgtgagtgaaagacgatactctgtaaaatctcaagggatccacccggagagcagtcaagg	720
DB	665	ggctctgtgagtgaaagacgatactctgtaaaatctcaagggatccacccggagagcagtcaagg	724
QY	721	gactaaagagtgcagtgctccccaatgacgtgtgacggtccggcgtgtgacgagagaaaggtc	780
DB	725	gactaaagagtgcagtgctccccaatgacgtgtgacggtccggcgtgtgacgagagaaaggtc	784
QY	781	accgttaaatatcacacatacttcacaaagccaaaggtacaggtgtcccgctggagaaaa	840
DB	785	accgttaaatatcacacatacttcacaaagccaaaggtacaggtgtcccgctggagaaaa	844
QY	841	aagggagacactgacgttgtaagcgtccacagctccctccacgacgaattccagtggtataag	900
DB	845	aagggagacactgacgttgtaagcgtccacagctccctccacgacgaattccagtggtataag	904
QY	901	gatgacaaaagactgattgaaaggaagaaggggtgaaagtvgaaaacacagacttcttc	960
DB	905	gatgacaaaagactgattgaaaggaagaaggggtgaaagtvgaaaacacagacttcttc	964

1	PRIOR APPLICATION NUMBER: 60/0845598
2	PRIOR FILING DATE: 1998-05-07
3	PRIOR APPLICATION NUMBER: 60/0846000
4	PRIOR FILING DATE: 1998-05-07
5	PRIOR APPLICATION NUMBER: 60/084627
6	PRIOR FILING DATE: 1998-05-07
7	PRIOR APPLICATION NUMBER: 60/0846343
8	PRIOR FILING DATE: 1998-05-07
9	PRIOR APPLICATION NUMBER: 60/0853399
10	PRIOR FILING DATE: 1998-05-13
11	PRIOR APPLICATION NUMBER: 60/085338
12	PRIOR FILING DATE: 1998-05-13
13	PRIOR APPLICATION NUMBER: 60/0853232
14	PRIOR FILING DATE: 1998-05-13
15	PRIOR APPLICATION NUMBER: 60/0855822
16	PRIOR FILING DATE: 1998-05-15
17	PRIOR APPLICATION NUMBER: 60/0857000
18	PRIOR FILING DATE: 1998-05-15
19	PRIOR APPLICATION NUMBER: 60/0856869
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21	PRIOR APPLICATION NUMBER: 60/0855799
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23	PRIOR APPLICATION NUMBER: 60/0855800
24	PRIOR FILING DATE: 1998-05-15
25	PRIOR APPLICATION NUMBER: 60/0855737
26	PRIOR FILING DATE: 1998-05-15
27	PRIOR APPLICATION NUMBER: 60/0857040
28	PRIOR FILING DATE: 1998-05-15
29	PRIOR APPLICATION NUMBER: 60/085697
30	PRIOR FILING DATE: 1998-05-15
31	PRIOR APPLICATION NUMBER: 60/086023
32	PRIOR FILING DATE: 1998-05-18

QY	1	gctcttcgcgaacacgctgatttaatcttcctctgtaaacacgtctggaagaaacaaatct	60
Db	6	gtctcttcgcgaacacgctgatttaatcttcctctgtaaacacgtctggaagaaacaaatct	65
QY	61	atcaggaagaagaagaagaaaaaaacgcgaaccttgacaaaaagaagaagaagaaga	120
Db	66	atcaggaagaagaagaagaagaaaaaaacgcgaaccttgacaaaaagaagaagaaga	124
QY	121	aaaaaaaaatcatgaaaaccttcacgcgaacaaatcacaaatctactcttttggaatttc	180
Db	125	aaaaaaaaatcatgaaaaccttcacgcgaacaaatcacaaatctactcttttggaatttc	184
QY	181	acgagcgctgcgtgcctcgtctcttcctccaaagagtgctcccgctgcgacgagagatccac	240
Db	185	acgagcgctgcgtgcctcgtctcttcctccaaagagtgctcccgctgcgacgagagatccac	244
QY	241	ttccccaagaactatggaacaaactgtgacgctcccgacaggggagagcgacacacccaggtgc	300
Db	245	ttccccaagaactatggaacaaactgtgacgctcccgacaggggagagcgacacacccaggtgc	304
QY	301	actcattgacaacccggtgacacccgggtgacctgcgtctaaacgcgaagacacatctctatgct	360
Db	305	actcattgacaacccggtgacacccgggtgacctgcgtctaaacgcgaagacacatctctatgct	364
QY	361	gggaatgacaagctgctgtgataccctcgcgtgctccttcctgagcaacacccaaagcag	420
Db	365	gggaatgacaagctgctgtgataccctcgcgtgctccttcctgagcaacacccaaagcag	424
QY	421	tacagatctcggatctccgaacactgtgatactgataacagagcgcttaacactctctgctgt	480
Db	425	tacagatctcggatctccgaacactgtgatactgataacagagcgcttaacactctctgctgt	484
QY	481	cagacagacaaccccaagaacctcagggctccacacccatctgtgcaagatctcccaaa	544
Db	485	cagacagacaaccccaagaacctcagggctccacacccatctgtgcaagatctcccaaa	548

QY 541 attgttagagatttcttcagatatctccattatgaaggacattatagctcactgc 600
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Db 545 attgttagagatttcttcagatatctccattatgaaggacattatagctcactgc 604
601 ataggaactgttagaccagagactacggttacttggagacacatctctccaaagcggtt 660
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Db 605 ataggaactgttagaccagagactacggttacttggagacacatctctccaaagcggtt 664
661 ggcttctgttagaagaagaatacttgganaattcgaaggacaccccggaagcagtcagg 720
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Db 665 ggcttctgttagaagaagaatacttgganaattcgaaggacaccccggaagcagtcagg 724
721 gactacagatgcagtcgctcccaatagcgtggccgcccgttgaagagagtaaggttc 760
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Db 725 gactacagatgcagtcgctcccaatagcgtggccgcccgttgaagagagtaaggttc 764
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Db 785 accgtgaactatccacacatcttcagaagccaaagggtacaggttcccccgtggagaa 844
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Db 905 gatgtcaaaagactgattgaaggaaagagggtgaagaatggaaaacagaccttcttc 964
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1261 caaatgaattagaagaac 1320
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Db 1265 caaatgaattagaagaac 1324
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1381 ggtaacaatggagtttcttctcccaacgggaagacacacacacacacacacacacacac 1440
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Db 1385 ggtaacaatggagtttcttctcccaacgggaagacacacacacacacacacacacacac 1444
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RESULT 4
US-09-978-188A-522
; Sequence 522. Application US/09978188A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C8
CURRENT APPLICATION NUMBER: US/09/978,188A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656

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PRIORITY APPLICATION NUMBER: 60/0834499
PRIORITY FILING DATE: 1998-04-29
PRIORITY APPLICATION NUMBER: 60/0834496
PRIORITY FILING DATE: 1998-04-29
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PRIORITY FILING DATE: 1998-04-29
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PRIORITY APPLICATION NUMBER: 60/083742
PRIORITY FILING DATE: 1998-04-30
PRIORITY APPLICATION NUMBER: 60/084366
PRIORITY FILING DATE: 1998-05-05
PRIORITY APPLICATION NUMBER: 60/084414
PRIORITY FILING DATE: 1998-05-06
PRIORITY APPLICATION NUMBER: 60/084441
PRIORITY FILING DATE: 1998-05-06
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PRIORITY APPLICATION NUMBER: 60/085573
PRIORITY FILING DATE: 1998-05-15
PRIORITY APPLICATION NUMBER: 60/085704
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PRIORITY APPLICATION NUMBER: 60/085697
PRIORITY FILING DATE: 1998-05-15
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Query Match          98.1%; Score 1661.4; DB 36; Length 1679;
Best Local Similarity 99.9%; Pared No. 1.2e-236;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1
QY      1 gtccttcagcaaacagtgatttaattctcttccttgacaaagcttgagcaacacatct 60
DB      6 gtccttcagcaaacacggtgatttaattctcttccttgacaaagcttgagcaacacatct 65
QY      61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
DB      66 atcaggaagaagaagaag-aaaaaacgcgaacctgacaaaagaagaagaagaagaaga 124

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1	PRIOR APPLICATION NUMBER: 60/081817
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3	PRIOR APPLICATION NUMBER: 60/081819
4	PRIOR FILING DATE: 1998-04-15
5	PRIOR APPLICATION NUMBER: 60/081952
6	PRIOR FILING DATE: 1998-04-15
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9	PRIOR APPLICATION NUMBER: 60/082568
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14	PRIOR FILING DATE: 1998-04-22
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16	PRIOR FILING DATE: 1998-04-22
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22	PRIOR FILING DATE: 1998-04-23
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44	PRIOR FILING DATE: 1998-04-30
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64	PRIOR FILING DATE: 1998-05-13
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PRIOR FILING DATE: 1998-05-15
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 PRIOR FILING DATE: 1998-05-15

Query Match 98.1%; Score 1661.4; DB 36; Length 1679;
 Best Local Similarity 99.9%; Pred. No. 1.2e-235;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 gtctttagcaaaacagtggtttaattccttcgacaaagctttagagcaacacattc 60
 Db 6 gtctttagcaaaacagtggtttaattccttcgacaaagctttagagcaacacattc 65
 QY 61 atcaggaagaagaagaagaagaacacgaacctgacaaagaagaagaagaagaaga 120
 Db 66 atcaggaagaagaagaagaagaacacgaacctgacaaagaagaagaagaagaaga 124
 QY 121 aaaaaatcatgaacacatccagccaaaatgacaaattctatctcttggcaatttc 180
 Db 125 aaaaaatcatgaacacatccagccaaaatgacaaattctatctcttggcaatttc 184
 QY 181 acggggtctgctctctgtctcttccaaagagtgcccgctcgacagcgagatgacac 240
 Db 185 acggggtctgctctctgtctcttccaaagagtgcccgctcgacagcgagatgacac 244
 QY 241 ttcccaaaagcttagcaacagtgacggtccggaaggggagagcgccacccctaaagtg 300
 Db 245 ttcccaaaagcttagcaacagtgacggtccggaaggggagagcgccacccctaaagtg 304
 QY 301 actattgacaacccgggtcacccgggtggtcgtgttaaacgcagacacatctctatagtc 360
 Db 305 actattgacaacccgggtcacccgggtggtcgtgttaaacgcagacacatctctatagtc 364
 QY 361 gggaatgacaagtggtcgtgtatctcgtggtggtcccttcgtgacacacccaaagcag 420
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 QY 421 tacagcatcgagatccagaacgttgatgtgtatagaaggggaccttaacctgctcggtg 480
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 QY 481 cagacagac 540
 Db 485 cagacagac 544
 QY 541 attgagagattcttcagatatctccaatatgaagaaggacacattagacctacacg 600
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 QY 601 ataggaactgtagaccacagac 660
 Db 605 ataggaactgtagaccacagac 664
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RESULT 6
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 ; Sequence 522, Application US/0978191A
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Bolstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Flivaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kijavini, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2630P1C4
 CURRENT APPLICATION NUMBER: US/09/978,191A
 PRIOR FILING DATE: 2001-10-15
 PRIOR APPLICATION NUMBER: 09/918585
 PRIOR FILING DATE: 2001-07-30
 PRIOR APPLICATION NUMBER: 60/062250
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 PRIOR APPLICATION NUMBER: 60/064249
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RESULT 7
: Sequence 522, Application US/09978192
: GENERAL INFORMATION:
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnovers, Luc
: APPLICANT: Eaton, Dan
: APPLICANT: Ferrara, Napoleon
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Foong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Geider, Hanspeter
: APPLICANT: Gerritsen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, J. Christopher
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Kijavlin, Ivar J.
: APPLICANT: Kuo, Sophia S.
: APPLICANT: Napier, Mary A.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Shelton, David L.
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2630P1C9
: CURRENT APPLICATION NUMBER: US/09/978,192
: PRIOR APPLICATION NUMBER: 09/918585
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1998-05-15
Query Match 98.1%; Score 1661.4; DB 36; Length 1679;

Best Local Similarity 99.9%; Pred. No. 1.2e-236;
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RESULT 8
US-09-978-192A-522
Sequence 522, Application US/09978192A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertelsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillman, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paonli, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Aids Encoding the Same
FILE REFERENCE: P2630PIC9
CURRENT APPLICATION NUMBER: US/09/978, 192A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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RESULT 9
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Sequence 522, Application US/09978193A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Food, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Geber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kilavin, Ivar J.
APPLICANT: Kuo, Sophia S.
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APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C6
CURRENT APPLICATION NUMBER: US/09/978,193A
CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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Qy 1561 atagagacgaagaagaatgagacacacacacacacacacacacacacacacacacacac 1620
Db 1565 atagagacgaagaagaatgagacacacacacacacacacacacacacacacacacacac 1624
Qy 1621 actgtgcac 1675
Db 1625 actgtgcac 1679

RESULT 10
US-09-788-194A-522
Sequence 522, Application US/0978194A
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tomas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P2C10
CURRENT APPLICATION NUMBER: US/09/978,194A
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450

[illegible]

1 PRIOR FILING DATE: 1998-05-15
 2 PRIOR APPLICATION NUMBER: 60/085580
 3 PRIOR FILING DATE: 1998-05-15
 4 PRIOR APPLICATION NUMBER: 60/0985573
 5 PRIOR FILING DATE: 1998-05-15
 6 PRIOR APPLICATION NUMBER: 60/085704
 7 PRIOR FILING DATE: 1998-05-15
 8 PRIOR APPLICATION NUMBER: 60/085697
 9 PRIOR FILING DATE: 1998-05-15

Query Match	98.1%;	Score 1661.4;	DB 36;	Length 1679;
Best Local Similarity	99.9%;	Pred. No. 1.2e-236;		
Matches 1673;	Conservative	0;	Mismatches 1;	Indels 1;
			Gaps	1

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Db	6	gfcctcccgcaaaaacgvtgatttaactctcccttgacaaagcttgagagcaacaact	65
OY	61	atcaggaagaagaagaagaaaaaaacaacgcgaacctgcacaaaagaagaagaaga	120
Db	66	atcaggaagaagaagaagaagaaaaaaacaacgcgaacctgcacaaaagaagaaga	124
OY	121	aaaaaatacatgaaaaacccctccagccaaaatgcacaattctatctcttggaacttc	180
Db	125	aaaaaatacatgaaaaacccctccagccaaaatgcacaattctatctcttggaacttc	184
OY	181	acgggagctgcgtctgtctgtctctcccaagagvtgcccgtgcgacgagatgcac	240
Db	185	acgggagctgcgtctgtctgtctctcccaagagvtgcccgtgcgacgagatgcac	244
OY	241	ttccccaagaagtatgagcaaacgtgaaagctccgacagggggagagccacacctgaagtc	300
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Db	305	actatgacaaacccgggtgcacccgggtgcgtctgaagctaaacgacacatctctatct	364
OY	361	gggaatgacaaagtgtgtgctctggaatccctcgagvtgtctctctgagcaaacccaacgcag	420
Db	365	gggaatgacaaagtgtgtgctctggaatccctcgagvtgtctctctgagcaaacccaacgcag	424
OY	421	taagatctcgatctccaagaagacgtgatgtctatgaaagagggcccttaacactgtccgtg	480
Db	425	taagatctcgatctccaagaagacgtgatgtctatgaaagagggcccttaacactgtccgtg	484
OY	481	cagacagacaacccaacccaagaagaccttaagtggtccacctatgtgtgcagtatctccaa	540
Db	485	cagacagacaacccaacccaagaagaccttaagtggtccacctatgtgtgcagtatctccaa	544
OY	541	attgttagagattcttcctagatctctcattatgaagggaacaaatatctagctcacccgc	600
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Db	605	atagacaactgttagaacacaaagactacggttatctatcttgagaacaactctcccaagcggt	664
OY	661	gaccttgtgagvtgaagaagacataacttggaaatctcagagccatcaccccgagacgtctcag	720
Db	665	gaccttgtgagvtgaagaagacataacttggaaatctcagagccatcaccccgagacaggt	724
OY	721	gactaagagvtcagatgcctccaatgaagctggccgcgcgcgtgtgtacggaagaagtaagtc	780
Db	725	gactaagagvtcagatgcctccaatgaagctggccgcgcgcgtgtgtacggaagaagtaagtc	784
OY	781	accgtgaactatccacacataatctcagaagccaaggtacaggtgtcccggtggagaa	840
Db	785	accgtgaactatccacacataatctcagaagccaaggtacaggtgtcccggtggagaa	844
OY	841	aagggagacactgcgagvtgaagcctcgcagcagctccctcagcaagaattccagvtgtacag	900
Db	845	aagggagacactgcgagvtgtgaagcctcgcagcagctccctcagcaagaattccagvtgtacag	904

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QY	901	gagagaaagaagcattgttagaagaaagaaggggttgaagaggaaacagacttcttc	960
Db	905	gattgacaagaagcattgttagaagaaagaaggggttgaagaggaaacagacttcttc	964
QY	961	tcaaacctatcttcttcaatgtctctgaaactgtgaaactgtgaaactgtgcgtgc	1020
Db	965	tcaaacctatcttcttcaatgtctctgaaactgtgaaactgtgaaactgtgcgtgc	1024
QY	1021	tccaacaagcttgcgcacaacaactgtccagatcatgtctatttgcacagcgccgtcagc	1080
Db	1025	tccaacaagcttgcgcacaacaactgtccagatcatgtctatttgcacagcgccgtcagc	1084
QY	1081	gaaggtgagcaacgcgcagctgcagagagagcgagcgtcgtctgtcgtcgtctctctgtgc	1140
Db	1085	gaaggtgagcaacgcgcagctgcagagagagcgagcgtcgtctgtcgtcgtctctctgtgc	1144
QY	1141	ttgcacctgtctcttcaaatatttatcttgagtgctcgaattccccaacccggggaagcgtgcgc	1200
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QY	1201	ccaccacccacccaacaacaacagcaattgtgcacacccgcgcacgcacaacatcagatatata	1260
Db	1205	ccaccacccacccaacaacaacagcaattgtgcacacccgcgcacgcacaacatcagatatata	1264
QY	1261	caaatgtaaattgaagaagaacacgcctctcatgtggacaagaattttgagggaggggaacaag	1320
Db	1265	caaatgtaaattgaagaagaacacgcctctcatgtggacaagaattttgagggaggggaacaag	1324
QY	1321	ataactttgggggggaaaaaagttttaaaaagaatgtaaattgtccttcagatatatta	1380
Db	1325	ataactttgggggggaaaaaagttttaaaaagaatgtaaattgtccttcagatatatta	1384
QY	1381	ggtacaaatgagatttcttcttcccaaacggggaagaacacacgcgcgcgttggaccoca	1440
Db	1385	ggtacaaatgagatttcttcttcccaaacggggaagaacacacgcgcgcgttggaccoca	1444
QY	1441	ctgcgaagcgtcatctgtgaacactctttgtgtgcagatgtgggcgaaggctgaagctctgc	1500
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QY	1501	cccaacagatgtgccccacgcgttgaaactatctctgagcgtgcgcatacccaattcaatcagctc	1560
Db	1505	cccaacagatgtgccccacgcgttgaaactatctctgagcgtgcgcatacccaattcaatcagctc	1564
QY	1561	atagagagcaacaagaatgagacacttccgcgcacacgcgttgcgtctgcgcgcacttvgtag	1620
Db	1565	atagagagcaacaagaatgagacacttccgcgcacacgcgttgcgtctgcgcgcacttvgtag	1624
QY	1621	actgtgcgccacgcgcgtgtgttgtgaagatgtgaataaaagcgcaaaaaaaa	1675
Db	1625	actgtgcgccacgcgcgtgtgttgtgaagatgtgaataaaagcgcaaaaaaaa	1679

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RESULT 11
US-09-978-2965-522
Sequence 522, Application US/099782955
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Bostein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Guney, Austin L.

```

APPLICANT: Hillan, Kenneth J
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PlC11
CURRENT APPLICATION NUMBER: US/09/978,295A
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083742
PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
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PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
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PRIOR APPLICATION NUMBER: 60/084600
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PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
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PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15

Query Match 98.1%; Score 1661.4; DB 36; Length 1679;
Best Local Similarity 99.9%; Pred. No. 1.2e-236;
Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

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QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
DB 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
QY 121 aaaaaaatcatgaaaacccatccagccaaaatgcaaaattctatctcttggaatcttc 180
DB 125 aaaaaaatcatgaaaacccatccagccaaaatgcaaaattctatctcttggaatcttc 184
QY 181 acggggctggtctgtctgtctctcttcacaaagagtgccctgagcagcggagatgcacc 240
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DB 305 actatthacaacccggttaccocgggtgacctgctaaacccgagcaccatctctatgct 364
QY 361 gggaatgacaagtggtgctgctggtatctctgctgctctcttgagcaacccaacagcag 420
DB 365 gggaatgacaagtggtgctgctggtatctctgctgctctcttgagcaacccaacagcag 424
QY 421 taagcatcgagatccagaaagtgatgtatgacgagggcccttaacacctgctgctg 480
DB 425 taagcatcgagatccagaaagtgatgtatgacgagggcccttaacacctgctgctgctg 484

QY 481 cagacagacaacccaagaagacctgaggtccaaactaatgtgcaagatctcccaaa 540
DB 485 cagacagacaacccaagaagacctgaggtccaaactaatgtgcaagatctcccaaa 544
QY 541 attgtgagattcttcagatctccatgaatgaaggaacaaatattagctccaccctgc 500
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DB 605 atgacgaactgtagcagccagaccccaaggttacttggagacaatctctcccaagcggt 664
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DB 1205 ccacacacccac 1264
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DB 1385 ggtacaatgagatttctcttcccaacgggaagaacacacacacacacacacacacacacac 1444
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DB 1445 ctgcaagctgcatcgtgcaacaccttgytgcaggtggtggaagggctcagctctctg 1504
QY 1501 cccacagagtgcccccacagtggaacattcttgagagctggtccatcccaatccaatgagtc 1560
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1	PRIOR APPLICATION NUMBER: 09/918593
2	PRIOR FILING DATE: 2001-07-30
3	PRIOR APPLICATION NUMBER: 60/062525
4	PRIOR FILING DATE: 1997-10-17
5	PRIOR APPLICATION NUMBER: 60/064248
6	PRIOR FILING DATE: 1997-11-03
7	PRIOR APPLICATION NUMBER: 60/065311
8	PRIOR FILING DATE: 1997-11-13
9	PRIOR APPLICATION NUMBER: 60/066366
10	PRIOR FILING DATE: 1997-11-21
11	PRIOR APPLICATION NUMBER: 60/077455
12	PRIOR FILING DATE: 1998-03-10
13	PRIOR APPLICATION NUMBER: 60/077633
14	PRIOR FILING DATE: 1998-03-11
15	PRIOR APPLICATION NUMBER: 60/077641
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17	PRIOR APPLICATION NUMBER: 60/077644
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19	PRIOR APPLICATION NUMBER: 60/077779
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22	PRIOR FILING DATE: 1998-03-13
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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	340.6	20.1	1014	2 US-08-414-657D-5	Sequence 5, Appl1
5	338.6	20.0	861	2 US-08-414-657D-9	Sequence 9, Appl1
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7	337.4	19.9	945	2 US-08-414-657D-8	Sequence 8, Appl1
8	333.8	19.7	861	2 US-08-414-657D-10	Sequence 10, Appl1
9	303.6	17.9	756	2 US-08-414-657D-17	Sequence 17, Appl1
10	298.2	17.6	756	2 US-08-414-657D-18	Sequence 18, Appl1
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45	45.2	2.7	253	2 US-08-520-678A-25	Sequence 25, Appl1

ALIGNMENTS

RESULT 1
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: Sequence 3, Application US/08414657D
: Patent No. 5861283
: GENERAL INFORMATION:
: APPLICANT: Levitt, Pat
: APPLICANT: Pimental, Aurea
: APPLICANT: Fischer, Itzhak
: APPLICANT: Zhukareva, Victoria
: TITLE OF INVENTION: Limbic System-Associated Membrane
: NUMBER OF SEQUENCES: 60
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Dechert Price & Rhoads
: STREET: 997 Lenox Drive, Building 3, Suite 210
: CITY: Lawrenceville
: STATE: NJ
: COUNTRY: USA
: ZIP: 08543
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/414,657D
: FILING DATE: 31-MAR-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Bloom, Allen
: REGISTRATION NUMBER: 29,135
: REFERENCE/DOCKET NUMBER: 317743-102
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 609-520-3214
: TELEFAX: 609-520-3259
: TELEX:
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1238 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: NAME/KEY: Coding Sequence
: LOCATION: 56...1069
: OTHER INFORMATION:
: US-08-414-657D-3

Query Match 20.3%; Score 343; DB 2; Length 1238;
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QY 801 cattcagaagaacaaaggtacaggtgtcccggtggacaaagggagacactcagtgga 860
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DB 715 CATCACAGAGTCTTAAGAGCAATGAGCCACACAGACAGACAGAACTCTCCATAATGGA 774

QY 861 agcctcagcagtcctccctcagcagaatctccagtggtacaaagatgacaaaagactga 920
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 775 AGCCTCAGCGGTGCTGACACTGACTTGAAGTGTACCGGGAGTACACCAAG--GATAAA 831

QY 921 aggaagaagaaggtgaagaagtgaaaaacagaccccttctcaaatctatcttctaa 980
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 832 CAGTGCAAACGGCTTGAGATTAAAGGCACTGAGGGGCGACATCTCTCCCTACGCTACCCA 891

QY 981 tgtctgaacatgaactatggaactaacttgctggtccctcaacaagaactgagcacac 1040
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 892 CGTCACTGAGAACTACAGGCACTATACCTGTGTGTGCGCCAAACAACTGGGGTAC 951

QY 1041 caatgacagcatcgtctatgtgtccagcgccgtcaagcgaggtgagacgagcgtc 1100
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 952 CAATGCCAGCTTACTCTTTTCAGACCGCGGTGGTAG--AGGAATCAAGGATTCAT 1008

QY 1101 gaggagggcagcgtcgtcgtgtgtcctctctcgtgtctgtcgtcgtcctcaatt 1160
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1009 CAGCTGGCCGTACCACTGTGCTGTGGCAAGCTCCCTGTCTGTCTCAGCAAAATG 1068

QY 1161 ttgat 1165
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1069 TTAAT 1073
  
```

RESULT 2
 US-08-414-657D-7
 ; Sequence 7, Application US/08414657D
 ; Patent No. 5861283

GENERAL INFORMATION:
 APPLICANT: Levitt, Pat
 APPLICANT: Pimenta, Aurea
 APPLICANT: Fischer, Itzhak
 APPLICANT: Zhukareva, Victoria
 TITLE OF INVENTION: Limbic System-Associated Membrane
 TITLE OF INVENTION: Protein and DNA
 NUMBER OF SEQUENCES: 60
 CORRESPONDENCE ADDRESS:
 ADDRESS: Dechert Price & Rhoads
 STREET: 997 Lenox Drive, Building 3, Suite 210
 CITY: Lawrenceville
 STATE: NJ
 COUNTRY: USA
 ZIP: 08543

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259

TELEX:
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 924 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1..924
 OTHER INFORMATION:
 US-08-414-657D-7

Query Match 20.1%; Score 340,6; DB 2; Length 924;
 Best Local Similarity 63.3%; Pred. No. 2.3e-75;
 Matches 358; Conservative 0; Mismatches 314; Indels 9; Gaps 2;

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QY 201 tctctccaaagagatgcccgtgacagcggagatgccaacttcccccaagctatggaca 260
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 45 TCTTCCACAGAGACTGCCGCTTCGACGCTGAT-----TTTAACCGAGCAGCAGAA 98

QY 261 cgtgaagctccggcggggggagagcgccaccctcaagtgacatatgcaaacgggtgc 320
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 99 CATCACCGTGAAGCAGGGGACAGGGCCATCTCAGGTGTGTGTAGTAAGCAAGAACTC 158

QY 321 ccgggtggcctgctaaacccgacacacccctctatgctggaatgaagtgagtcct 380
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 159 AAAAGTGGCTGTGTGAACCGCTTCTGCAATTTTCTGAGATGACAAAGTGCTCT 218

QY 381 ggaacctgcgtgtgctctctgagaaacaccccaacgcagatcagatcgaatccagaa 440
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 219 GGACCCAGGGTGTGAGCTGGGAAACGCCATCTCTGGAATACAGCTCCGAATCCAGAA 278
  
```

```

QY 441 cgtgatgtatgaacagggcccttaacccgtgcgtgcagacagacaaccccaaa 500
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 279 GGTGATGTCTATGATGAGGGTCTTACACTGTGTCTGACAGACAGCTAGGCCAA 338
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 501 gaccttaagggtccacccatattgtgcaatctcccaaatgttagaatcttcaga 560
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 339 GACGCCCAAGTTTACTTATGTATGCTACAGTCCCAAGATATCTCAATATCTCTCGGA 398
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 561 tatctcaattatgaaggaacataatagccctcaactgtatagcaactgttgaacaga 620
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 399 TGTCACTGTGTAATGAGGGCAGCAACGTACTGTGTGTGATGGCCAAATGCGCTCTGA 458
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 621 gcttaaggttaacttggaacacatctccccaagggtgtgtgtgtgtgtgaagagca 680
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 459 ACCTGTATACCTCGAGACACCTTACACCACTGGAAGGAAATTTTGAAGAGAGAGAGA 518
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 681 atacttgaattcaagagcatcaccccggaagcaatcaggggaactagagtgtgcctc 740
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 519 ATACTGAGATCTCTTGCGATCACAGGAGACATTCAGGCAATATGACTGCAAAAGTGC 578
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 741 caatgaagtgccgcgcgcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 800
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 579 CAACGAGGTCTCTCGCGCGAGTCAAAAGTCAAGTCACTGTGAATCTATCTCCAC 638
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 801 cattcagaagccaagaggtacaggtgtcccggtgtgtgtgtgtgtgtgtgtgtgtgt 860
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 639 TATCACAGATTCAGAGCAATGAAGCAACCAACAGACAGACAGCACTTCTCAATGTGA 698
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 861 agcccaagcagtcctccctcagcagaatctcagttgtgtgtgtgtgtgtgtgtgtgtgt 920
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 699 GGCTCGGCACTGCTGCACTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 755
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 921 aggaagaagaagggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 980
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 756 TAGTCCCAATGCTCTGAGATTAAGACACGAGGCGCAAGTCTTCCCTACGCTGACCAA 815
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 981 tctcttaaacatgactatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 1040
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 816 CGTCACTGAGGACACTACGCGCACTACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 875
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1041 caatgccagcatcatattgttccagggcgcgtgtgtgtgtgtgtgtgtgtgtgtgt 1081
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 876 CAATGCCAGCTTACTCTTTTCAAGACCTGCGGTGAGAG 916
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```

```

RESULT 3
US-08-414-657D-1
; Sequence 1, Application US/08414657D
; Patent No. 5861283
GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Ziskareva, Victoria
; APPLICANT: Ziskareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
; ADDRESS: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTED for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995

```

```

; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ. ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 977 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 2..976
; OTHER INFORMATION:
US-08-414-657D-1

```

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Query Match 20.1%; Score 340.6; DB 2; Length 977;
Best local similarity 63.3%; Pred. No. 2,36-75;
Matches 558; Conservative 0; Mismatches 314; Indels 9; Gaps 2;

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QY 201 tctcttcaagagatgccgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 260
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Db 46 TCTTCCACAGAGACTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 99
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 261 cgtgaagtcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 320
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 100 CATCACCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 159
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 321 ccgggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 380
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 160 AAGGTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 219
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 381 ggtatctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 440
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 220 GGACCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 279
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 441 cgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 500
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 280 GTGTGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 339
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 501 gaccttaagggtccacccatattgtgcaatctcccaaatgttagaatcttcaga 560
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 340 GACTTCCCAAGTTTACTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 399
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 561 tatctcaattatgaaggaacataatagccctcaactgtatagcaactgttgaacaga 620
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 400 TGTCACTGTGATGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 459
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 621 gctttaggttacttggaaacacatctctcccaagggtgtgtgtgtgtgtgtgtgtgtgtgt 680
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 460 ACCTGTATACCTCGAGACACCTTACACCACTGGAAGGAAATTTTGAAGAGAGAGAGAGA 519
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 681 atacttgaattcaagagcatcaccccggaagcaatcaggggaactagagtgtgcctc 740
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 520 ATATTCGAGAGATCTTGTGCAATCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 579
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 741 caatgaagtgccgcgcgcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 800
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 580 CAACGAGGTCTCTGCGCGAGTGTCAAAAGTCAAGGTCAAGTCAAGTCAAGTCAAGTCAAG 639
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 801 catttaagaagcaaggtttagaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 860
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 640 TATCACAGATTCAGAGCAATGAGAGCAACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 699
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

```



```

Db 240 GGACCCGCGGTTGAGCTGAGAAACGCCATGCTGTGAATACAGCTCCGATCCAGAA 299
Qy 441 cgtggtatgtatgacagagggcccttaacctctcgtgtgcagagacacccccc 500
Db 300 GGTGATGCTATGATGAAGGATCCTACATGCTCAGTTGAGACACAGCGAGGCCAA 359
Qy 501 gacctgaaggtccacctcattgtgcgaagtatctcccaaatgttagagatttccaa 560
Db 360 GACCTTCAGATTACTTGATTTGACAGTTTCCACCAAGATCTCCAACTCTCTGGGA 419
Qy 561 tatccattaatgaaggaacaaatattatgaaccttaacctgcatagacaactgttagacaga 620
Db 420 TGTACATGTAATGAGGAGGAGCAATGTAACCTGCTGCTCATGAGCAATGGGCCCTGA 479
Qy 621 gctacaggttaacttggagacacatctctcccaagcggttgcgttctgtgagtgaagcga 680
Db 480 ACCTGTATACCTCTGAGACACCTTACACCACTTGAAGAGATTTTGAAGAGAGAGA 539
Qy 681 atacttgaattcaggagatcccgagagcagtcaggaggaactcagatgacgtctc 740
Db 540 ATATCTGAGATCTTAGGATACCGAGGAGACAGTCAAGCAATATGAGTGCAGAGCTGC 599
Qy 741 caatgacgtgcccgcgcccgtgtgtacgagagtaaaagtlacccgtgaactatccacata 800
Db 600 CAAGAGAGTCTCCTCCGCGAGTCAACACAGTCAAGGTCAGTGAACATATCCACCCAC 659
Qy 801 cattcagaagcaaggtgtacaggtgtcccggtgagcaaaagggagacacgcaggttga 860
Db 660 CATCACAGAGTCTTAAGAGCAATGAAGCCACACAGCGACCAAGCTTCCCTCAATGAG 719
Qy 861 agcttcagcagtcctccctcagcagaattccagtggtataaagatgacaagaactgata 920
Db 720 AGCTTCAGCGGTGCTGACACCTGACTTGTGATGATGATGATGATGATGATGATGAT 776
Qy 921 aggaagaagaaggtgtaaggtgaaagaaacagacttccctcacaactcattctc 980
Db 777 CAGTCGAACAGGCTTGAATTAAGAGCATGAGGAGGACAGTCTCCTGACGATGACAA 836
Qy 981 tctctcgaatagaactatgaggaactaactgtgtgctcccaaaagctgtggagacac 1040
Db 837 CGTCACTGAGAACACTACGAGCACTATACCTGTGTGGTGGCCAAAGCTGGGCTC 896
Qy 1041 caatgcagacatcgtatttggccagcgccgtaacg 1081
Db 897 CAATGCCAGCTACTCTTTTCAAGACCGGAGGCTGATAGAG 937

```

RESULT 8

```

; US-08-414-657D-10
; Sequence 10, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414.657D

```

```

; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 861 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1..861
; OTHER INFORMATION:
; US-08-414-657D-10

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Query Match 19.7%; Score 333.8; DB 2; Length 861;
Best Local Similarity 63.4%; Pred. No. 1.1e-73;
Matches 528; Conservative 0; Mismatches 302; Indels 3; Gaps 1;

Qy 249 agcttggacacagtgacggttcccgagagggagagagcgccacctgaagtgacatttga 308
Db 24 AGCGACGAGCAACATACACCTGAGGAGGAGGAGACGCGCATCGATGATGATGATGATGAT 83
Qy 309 caaccgggtcaccgggtgtgctgtgttaaccgcacatcctctatgtcgggaatga 368
Db 84 AGACGAGAGACCTGAAAGTGGCTGTTGACACGCTGTGACATCATCTTGTGAGACAGA 143
Qy 369 caatggtggtcctgatcctcgtgtgtctctctctctctctctctctctctctctctct 428
Db 144 CAAAGTGTCTGTGACCTCTGGGTTGAGTGAAGAAAGCCATGCTCTGATACAGGCT 203
Qy 429 cgaatcagaacgtgtatgtatgacgagggcccttaacacctgtcgtgtgagacaga 488
Db 204 CGAATTCAGAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 263
Qy 489 caaccaccccaagacacctctaggtccacctctctgtgaaagtatctcccaaatgttga 548
Db 264 GCATGAGCCCAAGACCTCTCAAGTTTACTGTATGTACAAAGTTCACCAAGATCTCCAA 323
Qy 549 gatttctcagatatctccattatgaagggagacaattagcctcactgtatagcaac 608
Db 324 CATCTCTCGATGTCTCTGTGATGATGAGGACAGCAATTAACCTGCTGATGATGATGAT 383
Qy 609 tgttagacacagagctacaggttacttggagacacatctctcccaagcggttgcgttgc 668
Db 384 TGGGGGCGCTGAACTGTATACCTGTGAGACACCTTACCACTTGTGAAGAAATTTGA 443
Qy 669 gaatgagaagaatacttggaaatcgaaggtacaccccggaagaggtcagggagactaaga 728
Db 444 AGAGAGAGAGAAATATCTGAGAGATCCTAGGCACTACAGGAGGAGAAAGTCAGGCAAAATGA 503
Qy 729 gtgcagtgctccaatgaagtggtgcgcgcgcgtgtgacgagagtaaggtcagcgttga 788
Db 504 GTGCAAGGCTGCAACGAGGCTCTCTCCGCGATGTCAAAATAATCAAGTCACTGCTGA 563
Qy 789 ctatcacacatcatttcaagaagcgaaggtatcccggtgagacaaagggagac 848
Db 564 CTATCCACCAACATCAAGAGTCTAAGAGCAATTAAGCAACACGACAGAGACAACTTC 623
Qy 849 actggaagtgaagcctcagagctccctcagcagaattccagtgtgtaaggtatgaca 908
Db 624 CTCAAAATGTAAAGCTCAGCGGTGCTGACCTGATCTTGTAGTGTACCGGAGTACAC 683

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Query Match	17.6%;	Score 298.2;	DB 2;	Length 756;
Best Local Similarity	63.0%;	Pred. No. 6.8e-65;		
Matches 478; Conservative	0;	Mismatches 278;	Indels 3;	Gaps 1

```

QY 877 taagaataatccaggtgtacaaagatgacaaagaactgattgaaggaagaaggggtg 936
      || || || || || || || || || || || || || || || || || || || ||
Db 601 GCACTGACTCTTGAAGGTGACCGGGATGACACACAG---GATAAAGATGGAACGGCCCT 657
      || || || || || || || || || || || || || || || || || || || ||

QY 937 aaagtggaaaacagacctcttcctctcaaaaactatcttctcaatgtctgaatgac 996
      || || || || || || || || || || || || || || || || || || || ||
Db 658 GAGATTAAAGACACTAGAGGGCCAGTCCCTGACGGTGACCAAGCTCATTGAGGAACAC 717
      || || || || || || || || || || || || || || || || || || || ||

QY 997 tatgggaactaactatgctggctgcctcaaaagctgggc 1035
      || || || || || || || || || || || || || || || || || || || ||
Db 718 TACGGCAACTATACCTGTGTGGCTGCCAACAAGCTGGC 756
      || || || || || || || || || || || || || || || || || || || ||

RESULT 11
US-08-414-657D-11
; Sequence 11, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 219 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1...219
; OTHER INFORMATION:
US-08-414-657D-11

Query Match 5.9%; Score 100; DB 2; Length 219;
Best Local Similarity 67.0%; Pred. No. 5.9e-16;
Matches 142; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

```

	Query Match	Similarity	Score	DB 2:	Length
Db	Best Local	Similarity	65.68	Pred. No. 9	15-15
	Matches	139	Conservative	0	Mismatches 73; Indels 0; Gaps 0;
QY	277	ggggagagcgccacccctcaggtgcactattgcacaacccgagtcacccgggtctgctgacta	336		
	1	GGGAGACGCGCCCATCTCAGGTGTGTGTGAGAGACCAAGCAAGCACTCGAATAATGTCCTGGTGG	60		

```

Query Match      4.68; Score 77.8; DB 2; Length 177;
Best Local Similarity 65.0%; Pred. No. 1.7e-10;
Matches 115; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 577 ggagacataatagcctcaactgcataagcaactgtagaccagacctcagttacttg 636
      1 ggagcagacagctactcgtgtgcataggccaaatggccctctctaaacctttatcaactgg 60

```

[illegible]

QY 835 gacacaaaggagcactgtgaugtggtaagccctcagcagctccctccctcagcgaattccattc 894

Db 1 GGAGGACAAACCTTCACCTCAAAATGTAGAGCCCTCGGCGAGTCTCGACACCTGCACTTTTGACTGG 60

QY 895 tacagagatcacaaagactgtattgaaggaagaaggggtgaagtgtgaaacaagacct 954

Db 61 TACCGGAGTACACTGTAG---GATAAATATGTGCCAATATGGCCTTGAAATTAAAGACACGGAG 117

QY 955 ttccctccaaactcctctcttcctcaatgtcttgaacatcatctggaactacacttgc 101

Db 118 GGCCAGCTTTTCCTCGAGCTGACCCACAGCTCACTGAGGAGCATTACGGCACAATTAACCTGT 177

Qy 1015 gtggctccacaagctggg 1034
||||| |||||||||
Db 178 GTGGCTGCCAACAGCTGGG 197

Search completed: July 11, 2002, 22:53:32
Job time: 13221 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 21:28:17 ; Search time 418.18 Seconds
(without alignments)

4155.153 Million cell updates/sec

Title: US-09-700-397-1

Perfect score: 1032

Sequence: 1 atgaaccatccagcccaaa.....tgcacctgtctcctaattt 1032

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1156321 seqs, 841861299 residues

Total number of hits satisfying chosen parameters: 2312642

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_NA_New:*
1: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*
2: /cgn2_6/ptodata/2/pna/US06_NEW_COMB.seq:*
3: /cgn2_6/ptodata/2/pna/US07_NEW_COMB.seq:*
4: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
5: /cgn2_6/ptodata/2/pna/US08_NEW_COMB.seq:*
6: /cgn2_6/ptodata/2/pna/US10_NEW_COMB.seq:*
7: /cgn2_6/ptodata/2/pna/US60_NEW_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1032	100.0	1679	5	US-09-978-403A-522	Sequence 522, App
2	1032	100.0	1679	5	US-09-978-544A-522	Sequence 522, App
3	1032	100.0	1679	5	US-09-978-681A-522	Sequence 522, App
4	1032	100.0	1679	5	US-09-978-757A-522	Sequence 522, App
5	1032	100.0	1679	5	US-09-978-564A-522	Sequence 522, App
6	1032	100.0	1679	5	US-09-999-831A-522	Sequence 522, App
7	1032	100.0	1679	5	US-09-999-828A-522	Sequence 522, App
8	1032	100.0	1679	5	US-09-978-375A-522	Sequence 522, App
9	1032	100.0	1679	5	US-09-978-423A-522	Sequence 522, App
10	1032	100.0	1679	6	US-10-013-921A-522	Sequence 522, App
11	1032	100.0	1679	6	US-10-013-929A-522	Sequence 522, App
12	1032	100.0	1679	6	US-10-013-918A-522	Sequence 522, App
13	1032	100.0	1679	6	US-10-017-082A-522	Sequence 522, App
14	1032	100.0	1679	6	US-10-119-480-125	Sequence 125, App
15	1032	100.0	1679	6	US-10-121-049-375	Sequence 375, App
16	1032	100.0	1679	6	US-10-121-050-375	Sequence 375, App
17	1032	100.0	1679	6	US-10-121-053-375	Sequence 375, App
18	1032	100.0	1679	6	US-10-121-043-375	Sequence 375, App
19	1032	100.0	1679	6	US-10-121-044-375	Sequence 375, App
20	1032	100.0	1679	6	US-10-121-047-375	Sequence 375, App
21	1032	100.0	1679	6	US-10-121-054-375	Sequence 375, App
22	1032	100.0	1679	6	US-10-121-056-375	Sequence 375, App
23	1032	100.0	1679	6	US-10-121-057-375	Sequence 375, App
24	1032	100.0	1679	6	US-10-121-058-375	Sequence 375, App
25	1032	100.0	1679	6	US-10-121-060-375	Sequence 375, App
26	1032	100.0	1679	6	US-10-121-063-375	Sequence 375, App

27	1032	100.0	1679	6	US-10-123-108-375	Sequence 375, App
28	1032	100.0	1679	6	US-10-123-154-375	Sequence 375, App
29	1032	100.0	1679	6	US-10-123-156-375	Sequence 375, App
30	1032	100.0	1679	6	US-10-123-157-375	Sequence 375, App
31	1032	100.0	1679	6	US-10-123-212-375	Sequence 375, App
32	1032	100.0	1679	6	US-10-123-213-375	Sequence 375, App
33	1032	100.0	1679	6	US-10-123-109-375	Sequence 375, App
34	1032	100.0	1679	6	US-10-121-041-375	Sequence 375, App
35	1032	100.0	1679	6	US-10-121-045-375	Sequence 375, App
36	1032	100.0	1679	6	US-10-121-046-375	Sequence 375, App
37	1032	100.0	1679	6	US-10-121-051-375	Sequence 375, App
38	1032	100.0	1679	6	US-10-121-040-375	Sequence 375, App
39	1032	100.0	1679	6	US-10-121-048-375	Sequence 375, App
40	1032	100.0	1679	6	US-10-121-052-375	Sequence 375, App
41	1032	100.0	1679	6	US-10-121-061-375	Sequence 375, App
42	1032	100.0	1679	6	US-10-121-042-375	Sequence 375, App
43	1032	100.0	1679	6	US-10-121-055-375	Sequence 375, App
44	1032	100.0	1679	6	US-10-121-059-375	Sequence 375, App
45	1032	100.0	1679	6	US-10-124-822-375	Sequence 375, App

ALIGNMENTS

RESULT 1
US-09-978-403A-522
; Sequence 522, Application US/09978403A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavijn, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C17
; CURRENT APPLICATION NUMBER: US/09/978,403A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 60/077632

[illegible]

; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 5; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6,3e-290;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaaaacccatccagccaaatgcaacattctatctcttgggcaatcttaacgggctg 60
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QY 61 gctgctctgtctcttccaaggagtgccgctgcagcggagatgcaacctcccaaa 120
|||||
DB 194 gctgctctgtctcttccaaggagtgccgctgcagcggagatgcaacctcccaaa 253
QY 121 gctatgacaacgtgacggtccggcagggagagagccaccccttaagttgacattgac 180
|||||
DB 254 gctatgacaacgtgacggtccggcagggagagccaccccttaagttgacattgac 313
QY 181 aaccgggtcaaccgggtgagcctgctgtaaacccgacacccatctctatgctgggaatgac 240
|||||
DB 314 aaccgggtcaaccgggtgagcctgctgtaaacccgacacccatctctatgctgggaatgac 373
QY 241 aagtggtgcttgatcctcgctggtgctcttgaagcaaccccaacgacatgacatc 300
|||||
DB 374 aagtggtgcttgatcctcgctggtgctcttgaagcaaccccaacgacatgacatc 433
QY 301 gagatccagaacgtgagatgtgtatgacagggcccttaaccctgcgtcggtgagagccgac 360
|||||
DB 434 gagatccagaacgtgagatgtgtatgacagggcccttaaccctgcgtcggtgagagccgac 493
QY 361 aaccacccaaagaccttaggggtgcaacctcttggcaaatcttcccaaatgttaag 420
|||||
DB 494 aaccacccaaagaccttaggggtgcaacctcttggcaaatcttcccaaatgttaag 553
QY 421 attcttcagatctccatctaatagaagggaacattttagcctcaactgcatagcaact 480
|||||
DB 554 attcttcagatctccatctaatagaagggaacattttagcctcaactgcatagcaact 613
QY 481 ggttaaccagagccttaaggttactcttggaagacaactcttcccaaacggttgcttgg 540
|||||
DB 614 ggttaaccagagccttaaggttactcttggaagacaactcttcccaaacggttgcttgg 673
QY 541 agtgaagaacgatactctggaatctcagggcatccacccggagagcagtggaagactacag 600
|||||
DB 674 agtgaagaacgatactctggaatctcagggcatccacccggagagcagtggaagactacag 733
QY 601 tgcagtgctcccaatgaacgtgagccgctggtgtaacgagagtaagatcaccgtgaac 660
|||||
DB 734 tgcagtgctcccaatgaacgtgagccgctggtgtaacgagagtaagatcaccgtgaac 793
QY 661 tatccacatcatctttagaagccaggggttaaggttcccccgtgggaacaaaggagaca 720
|||||
DB 794 tatccacatcatctttagaagccaggggttaaggttcccccgtgggaacaaaggagaca 853
QY 721 ctgcagtgtaagccttaagcagctccctcagcaagatcccaagtgtaacaagatgacaa 780
|||||
DB 854 ctgcagtgtaagccttaagcagctccctcagcaagatcccaagtgtaacaagatgacaa 913
QY 781 agactgattgaagaaagaaagggtgaaagtgaaagaaagaccttctctcaaacctc 840
|||||
DB 914 agactgattgaagaaagaaagggtgaaagtgaaagaaagaccttctctcaaacctc 973
QY 841 atctcttcaatgtcttgtaacgtactatgggaactacactgtggtccctccaaacag 900
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DB 974 atctcttcaatgtcttgtaacgtactatgggaactacactgtggtccctccaaacag 1033
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DB 1034 ctgggcaacacaaatgccaagcatcatgtatttggccagcgccgtcagaggtgagc 1093
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QY 961 aacggcaacgtcggagggagggcagcgtcgtggtgtgctcttcttgctgacactg 1020
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DB 1094 aacggcaacgtcggagggagggcagcgtcgtggtgtgctcttcttgctgacactg 1153
QY 1021 ctcttcaaat 1032
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RESULT 2
US-09-978-544A-522
; Sequence 522, Application US/0978544A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Acids and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C13
; CURRENT FILING DATE: 2002-03-19
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;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 5; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6, 3e-290;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaataacatccagccaaaatgcaatctatctcttgggcaatcttcacgggctg 60
|||||
Db 134 atgaataacatccagccaaaatgcaatctatctcttgggcaatcttcacgggctg 193
QY 61 gctgctctgtctcttccaaggagtgccgtgcgcagcgagatgcaccccca 120
|||||
Db 194 gctgctctgtctcttccaaggagtgccgtgcgcagcgagatgcaccccca 253
QY 121 gctatgacaaatgacgttcggcgagggggagagccccccttcgggtgacattgac 180
|||||
Db 254 gctatgacaaatgacgttcggcgagggggagagccccccttcgggtgacattgac 313
QY 181 aacgggtgaccccggtggtcgtgtaaacccgcagccacccatctctatctgagatgac 240
|||||
Db 314 aacgggtgaccccggtggtcgtgtaaacccgcagccacccatctctatctgagatgac 373
QY 241 aagtggtgctgtgacccctgcgtgtgtccttctgagcaaaccccaagacacagacatc 300
|||||
Db 374 aagtggtgctgtgacccctgcgtgtgtccttctgagcaaaccccaagacacagacatc 433
QY 301 gagatccagaaatgagatggtgtagcaggggccccttaacccctgcgtgtagcagac 360
|||||
Db 434 gagatccagaaatgagatggtgtagcaggggccccttaacccctgcgtgtagcagac 493
QY 361 aacacacacaaagacatctagaggtccacccatctgtgcaaglatctcccaaatgtgtag 420
|||||
Db 494 aacacacacaaagacatctagaggtccacccatctgtgcaaglatctcccaaatgtgtag 553
QY 421 attcttcagatatactccatataatgaaaggaaatattagctcaccgtcagatagcaat 480
|||||
Db 554 attcttcagatatactccatataatgaaaggaaatattagctcaccgtcagatagcaat 613
QY 481 ggtgagacagagcctagcgtgtaacttgagacacatctctcccaagcggtgagcttctg 540
|||||
Db 614 ggtgagacagagcctagcgtgtaacttgagacacatctctcccaagcggtgagcttctg 673
QY 541 agtgaagaacgatalacttgaatattcagggcatalcaccgggagcagtcagggagactag 600
|||||
Db 674 agtgaagaacgatalacttgaatattcagggcatalcaccgggagcagtcagggagactag 733
QY 601 tgcagtgtccatagacgtggtgcgcgcgtggtgaacgagatgaaagtcacgtgac 660
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QY 661 tatccacacataattcagaagccaaagggtacaggtgtcccggtgagacaaaggagaca 720
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Db 794 tatccacacataattcagaagccaaagggtacaggtgtcccggtgagacaaaggagaca 853
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Db 914 agacgtatgaaagaaagaaaggggtgaagtggaagaaacacattccctccaataacac 973
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Db 974 attcttcaatgtctcgaacatgactatggaactacattgcgtgacccccaag 1033
QY 901 ctggggcacacacaaatgccaagatcattgtgtccaggcgcgctcagcgaggtgagc 960
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Db 1034 ctggggcacacacaaatgccaagatcattgtgtccaggcgcgctcagcgaggtgagc 1093
QY 961 aacggacagctgagagagggcgagctgctgctgctgctccttcgtctgacacctg 1020
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RESULT 3
US-09-978-681A-522
; Sequence 522, Application US/09978681A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paonli, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunes, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C18
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
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; PRIOR FILING DATE: 1998-05-15

Query Match      100.0%; Score 1032; DB 5; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6,3e-290;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      134 atgaataccatccagcccaaaaatgacaaattctatctcttggcgaattcttcagggtg 193
      |||

QY      61 gctgtctgttctcttccaagaagtgcacctgacgagagatgcacactcccaaa 120
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Db      194 gctgtctgttctcttccaagaagtgcacctgacgagagatgcacactcccaaa 253
      |||

QY      121 gctatgacaacgtgacggttccggaaggaggagcgccacccctcagtgacattgac 180
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Db      254 gctatgacaacgtgacggttccggaaggaggagcgccacccctcagtgacattgac 313
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QY 181 aaccggtcacccgggtggcctggttaaacccgacacccatctctatgtctggaaatgac 240
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Db 314 aaccgggtcaaccgggtggcctggttaaacccgacacccatctctatgtctggaaatgac 373
QY 241 aagtggtgctgtgatactcgtcggttctcttgagcaaccccaacgagtaagatc 300
|||||
Db 374 aagtggtgctgtgatactcgtcggttctcttgagcaaccccaacgagtaagatc 433
QY 301 gagatcagaacgtggtatgtatgatacgaagggcccttaacccctgctggtgacagac 360
|||||
Db 434 gagatcagaacgtggtatgtatgatacgaagggcccttaacccctgctggtgacagac 433
QY 361 aaccacccaagaacctctaggggttcaacctctgttgaagatctctccaaatgtgtag 420
|||||
Db 494 aaccacccaagaacctctaggggttcaacctctgttgaagatctctccaaatgtgtag 553
QY 421 attcttcagatattctccatataatgaaggaacataattgctcactcgtatgacact 480
|||||
Db 554 attcttcagatattctccatataatgaaggaacataattgctcactcgtatgacact 613
QY 481 ggtagaccagagcctacggttactctggagacacatctctccaaacggttggctgtg 540
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Db 614 ggtagaccagagcctacggttactctggagacacatctctccaaacggttggctgtg 673
QY 541 agtgaagaacgaatacttggaatcaagggtcaaccocggagacgtcaaggactacag 600
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Db 674 agtgaagaacgaatacttggaatcaagggtcaaccocggagacgtcaaggactacag 733
QY 601 tgcagtgctccatcaactgtggtgcgcgcgcgttgtaagagatlaagttccgtgac 660
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Db 734 tgcagtgctccatcaactgtggtgcgcgcgcgttgtaagagatlaagttccgtgac 793
QY 661 tatccacatattcattagaagcaagggtacaggtgtcccgctggagacaaggagaca 720
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Db 794 tatccacatattcattagaagcaagggtacaggtgtcccgctggagacaaggagaca 853
QY 721 ctgcagtgtaagcctcaagcgttccctcagcagaattccagtgtgataagatgacaa 780
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Db 854 ctgcagtgtaagcctcaagcgttccctcagcagaattccagtgtgataagatgacaa 913
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Db 914 agactgattgaaggaagaaaggtgaaagtgaagaaacagaccttctctccaatc 973
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Db 1034 ctgggcccacccaatgcccagcatcattgtgtccagcgcgctcagcgaggtgagc 1093
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Db 1094 aacggtcagctgagagggagcggtctgctggtgtgtctcttctgtcttgactg 1153
QY 1021 ctctccaattt 1032
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Db 1154 ctctccaattt 1165
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RESULT 4
US-09-798-757A-522

; Sequence 522, Application US/09978757A

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gunney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tunas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C26
; CURRENT APPLICATION NUMBER: US/09/978,757A
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15
;
Query Match 100.0%; Score 1032; DB 5; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6, 3e-290;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 gctcctgtgtctcttccaaggatgcccgtgacggagatgcaaccttcccaaa 120
DB 194 gctcctgtgtctcttccaaggatgcccgtgacggagatgcaaccttcccaaa 253
QY 121 gctatggacaacgtgacggtccgcagaggggagagccacccctcaggtgactatggac 180
DB 254 gctatggacaacgtgacggtccgcagaggggagagccacccctcaggtgactatggac 313
QY 181 aaccgggtcaccgggtgacctgactaaaccgagacaacatctctatgctgggaatgac 240
DB 314 aaccgggtcaccgggtgacctgactaaaccgagacaacatctctatgctgggaatgac 373
QY 241 aagtggtgctgatactcgtggtctctcttgaagcaaccccaacgcaatgacgac 300
DB 374 aagtggtgctgatactcgtggtctctcttgaagcaaccccaacgcaatgacgac 433
QY 301 gagatccagaacgtgatactgatacagagaccccttaacacctgctggtgacagac 360
DB 434 gagatccagaacgtgatactgatacagagaccccttaacacctgctggtgacagac 493
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QY 361 aaccacccaaagccctctaggtccactctattgtcgaagtatctccaaaattgtgag 420
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Db 494 aaccacccaaagccctctaggtccactctattgtcgaagtatctccaaaattgtgag 553
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US-09-978-564A-522

; Sequence 522, Application US/09978564A

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guiney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
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; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
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; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 5; Length 1679;
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DB 254 gcttgaacaagtgacggtccgagggagggagggcacccttaagtgacattgac 313
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; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrari, Napoleon
 ; APPLICANT: Flivartoff, Ellen


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; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kiljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC24
; CURRENT APPLICATION NUMBER: US/09/978,375A
; CURRENT FILING DATE: 2002-04-19
; Prior Application removed - See File Wrapper or Palm
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; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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Db 614 ggttaaccagagccttaaggttacttgggagacacatctctccaaacggttggcttttg 673
   |||

QY 541 agtgaagaacgatacttgaagaattcagggcatcccgaggagcagtcaggaggaacagag 600
   |||
Db 674 agtgaagaacgatacttgaagaattcagggcatcccgaggagcagtcaggaggaacagag 733
   |||

QY 601 tgcagtgcttccaatgacgtggtgcgcgcgtgtgtatgacgagtagaaagttaccggtgac 660
   |||
Db 734 tgcagtgcttccaatgacgtggtgcgcgcgtgtgtatgacgagtagaaagttaccggtgac 793
   |||

QY 661 tatccacatacatcttcagaagcgaagggtacaggttcccggtgggaaagagggagaca 720
   |||
Db 794 tatccacatacatcttcagaagcgaagggtacaggttcccggtgggaaagagggagaca 853
   |||
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```
QY 721 ctgcagtgtaagccttcagcagttccctccagcaaatccagtggtacaaagtacacaa 780
   |||
Db 854 ctgcagtgtaagccttcagcagttccctccagcaaatccagtggtacaaagtacacaa 913
   |||

QY 781 agactgattgaaggaaggaagggtgaaagtggaaacacgaccttctctcaaac 840
   |||
Db 914 agactgattgaaggaaggaagggtgaaagtggaaacacgaccttctctcaaac 973
   |||

QY 841 acctcttcaatgtctcttgaacatgacatgaggaacacgttgcgtggtccccaacag 900
   |||
Db 974 acctcttcaatgtctcttgaacatgacatgaggaacacgttgcgtggtccccaacag 1033
   |||

QY 901 ctgggcccacccaatgccaagcatcatgctattgttccagcgccgtccagcaggtgagc 960
   |||
Db 1034 ctgggcccacccaatgccaagcatcatgctattgttccagcgccgtccagcaggtgagc 1093
   |||

QY 961 aacggacagctgaggaaggagcaggtgctgctgctgctcctctctgttctgacctg 1020
   |||
Db 1094 aacggacagctgaggaaggagcaggtgctgctgctgctcctctctgttctgacctg 1153
   |||

QY 1021 ctctcaaat 1032
   |||
Db 1154 ctctcaaat 1165
   |||
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RESULT 10

US-10-013-921A-522

Sequence 522, Application US/10013921A

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Baton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James;

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.

APPLICANT: Steward, Timothy A.

APPLICANT: Tunas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2630P1C84

CURRENT APPLICATION NUMBER: US/10/013,921A

PRIOR APPLICATION NUMBER: 09/918585

PRIOR FILING DATE: 2002-03-19

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/064249

PRIOR FILING DATE: 1997-11-03

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066364

PRIOR FILING DATE: 1997-11-21

PRIOR APPLICATION NUMBER: 60/077450

[illegible]

; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085580
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085573
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085704
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697
 ; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 6; Length 1679;
 Best Local Similarity 100.0%; Pred. No. 6, 3e-290;
 Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaaacacatccagcaaaatgacacattctatctcttgggaacttcaacgggctg 60
 Db 134 atgaaacacatccagcaaaatgacacattctatctcttgggaacttcaacgggctg 133
 QY 61 gctgctctgtctcttccaaggagtgcccgctgcagcggagatgccaacttcccaaa 120
 Db 194 gctgctctgtctcttccaaggagtgcccgctgcagcggagatgccaacttcccaaa 253
 QY 121 gctatgacacagtgacggtccggaaggagagcgccaccccttaagtggaactatggac 180
 Db 254 gctatgacacagtgacggtccggaaggagagcgccaccccttaagtggaactatggac 313
 QY 181 aacccgggtaccccggtggtcgtgcttaaacccagcagccatctctatctgtggaatgac 240
 Db 314 aacccgggtaccccggtggtcgtgcttaaacccagcagccatctctatctgtggaatgac 373
 QY 241 aagtggtgcttgatcctcgctggttcccttcttgacaacaccccaacgacgataagc 300
 Db 374 aagtggtgcttgatcctcgctggttcccttcttgacaacaccccaacgacgataagc 433
 QY 301 gagatccagacgttgatgtgtatgacagagggcccttaacccctgctcggttgacagcagc 360
 Db 434 gagatccagacgttgatgtgtatgacagagggcccttaacccctgctcggttgacagcagc 493
 QY 361 aacaccccaagaaccttaaggttgcacaccttcttgacaatctcccaaatgttaag 420
 Db 494 aacaccccaagaaccttaaggttgcacaccttcttgacaatctcccaaatgtttag 553
 QY 421 attcttcaagatctccatlaaataagggagaacatatltagcctcaactgtcagaact 480
 Db 554 attcttcaagatctccatlaaataagggagaacatatltagcctcaactgtcagaact 613
 QY 481 ggtagacagagccttaaggttacttggagacacatctctccaaacgggttgacttg 540
 Db 614 ggtagacagagccttaaggttacttggagacacatctctccaaacgggttgacttg 673
 QY 541 agtgagaagcgaatacttggaatltcaaggacatcccgaggagcagtcagggaactacag 600
 Db 674 agtgagaagcgaatacttggaatltcaaggacatcccgaggagcagtcagggaactacag 733
 QY 601 tgcagtgcttccaatgacgtggcgccgcccgtgtgtacggagtaaggtccactgtgac 660
 Db 734 tgcagtgcttccaatgacgtggcgccgcccgtgtgtacggagtaaggtccactgtgac 793
 QY 661 taccacacatcatcttcaagaagcaggttaccaggttcccccgttgacaagaaggagca 720
 Db 794 taccacacatcatcttcaagaagcaggttaccaggttcccccgttgacaagaaggagca 853
 QY 721 ctgcaagtgtgaagcctcaagcagtcctccctcaagcagaattccagtgatacaagatgacaa 780
 Db 854 ctgcaagtgtgaagcctcaagcagtcctccctcaagcagaattccagtgatacaagatgacaa 913
 QY 781 agactgattgaaggaagaagggtggaagtgtgaagaacagacttctctccaaactc 840
 Db 914 agactgattgaaggaagaagggtggaagtgtgaagaacagacttctctccaaactc 973
 QY 841 atcttctcaatgtctctgaacatgacatggaactacactggtggtccctcaacag 900
 Db 974 atcttctcaatgtctctgaacatgacatggaactacactggtggtccctcaacag 1033

QY 901 ctggggccacacacatgccaagcatcatgctattgtgtccagcgccgtcagcgaagtgaac 960
 Db 1034 ctggggccacacacatgccaagcatcatgctattgtgtccagcgccgtcagcgaagtgaac 1093
 QY 961 aacggacgtctgaaggagggcagcgtgctgtgctgtcccttctgtgtcttgacactg 1020
 Db 1094 aacggacgtctgaaggagggcagcgtgctgtgctgtcccttctgtgtcttgacactg 1153
 QY 1021 ctctccaattt 1032
 Db 1154 ctctccaattt 1165

RESULT 11
 US-10-013-929A-522
 ; Sequence 522, Application US/10013929A
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Borstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gunney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kijavlin, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James;
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630P1C89
 ; CURRENT FILING DATE: 2002-03-19
 ; PRIOR APPLICATION NUMBER: 09/918585
 ; PRIOR FILING DATE: 2001-07-30
 ; PRIOR APPLICATION NUMBER: 60/062250
 ; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/064249
 ; PRIOR FILING DATE: 1997-11-03
 ; PRIOR APPLICATION NUMBER: 60/065311
 ; PRIOR FILING DATE: 1997-11-13
 ; PRIOR APPLICATION NUMBER: 60/066364
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 ; PRIOR FILING DATE: 1998-03-13
 ; PRIOR APPLICATION NUMBER: 60/078886

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PRIOR FILING DATE: 1998-04-23
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PRIOR FILING DATE: 1998-04-27
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PRIOR FILING DATE: 1998-04-28
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PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-13
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PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
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PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 6; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6.3e-290;

Matches 1032: Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 atgaaacccatccagccaaaatgacaaattctatctcttgggaattcttaagggcgc 60
Db 134 atgaaacccatccagccaaaatgacaaattctatctcttgggaattcttaagggcgc 193
QY 61 gctgcctctgtctcttccaaagagtgcccgctgcagcgagagatgcacacttcccaaa 120
Db 194 gctgcctctgtctcttccaaagagtgcccgctgcagcgagagatgcacacttcccaaa 253
QY 121 gctatgagcaacgtgacggtcccgaggggagagcgccaccccttaagtgacathtgac 180
Db 254 gctatgagcaacgtgacggtcccgaggggagagcgccaccccttaagtgacathtgac 313
QY 181 aaccgggtaccgccgggtgctgctgctaaaccgagacacatctcttaagctgggaatgac 240
Db 314 aaccgggtaccgccgggtgctgctgctaaaccgagacacatctcttaagctgggaatgac 373
QY 241 aagtggtgctgatactcgtgctgctctcttctgagcaacaccccaacgacatagacatc 300
Db 374 aagtggtgctgatactcgtgctgctctcttctgagcaacaccccaacgacatagacatc 433
QY 301 gagatccagaacgtgagatgtgatagacgagggcccttaacactgctcggtgcagaacagac 360
Db 434 gagatccagaacgtgagatgtgatagacgagggcccttaacactgctcggtgcagaacagac 493
QY 361 aaccacccaaagaccccttagaggtccacactatgtgacagatctcccaaatgtgagag 420
Db 494 aaccacccaaagaccccttagaggtccacactatgtgacagatctcccaaatgtgagag 553
QY 421 attcttcaagatatactccatataaggaagacaatatagctacactgacatagacac 480
Db 554 attcttcaagatatactccatataaggaagacaatatagctacactgacatagacac 613
QY 481 ggtgagacagagcctacggttacttggagacacatctctcccaaggggttggcttgtg 540
Db 614 ggtgagacagagcctacggttacttggagacacatctctcccaaggggttggcttgtg 673
QY 541 agtgaagacgaataacttggaaatltcagggacacaccccgagggagcagtaagggatagag 600
Db 674 agtgaagacgaataacttggaaatltcagggacacaccccgagggagcagtaagggatagag 733
QY 601 tgcagtgctcccaatgacgtgagcgccgctggtatcgagagagtaaaagtgacacgtgac 660
Db 734 tgcagtgctcccaatgacgtgagcgccgctggtatcgagagagtaaaagtgacacgtgac 793
QY 661 tatccaccataacttccagaagccaaggtacacgggtgtcccggtgggacaaaggggaca 720
Db 794 tatccaccataacttccagaagccaaggtacacgggtgtcccggtgggacaaaggggaca 853
QY 721 ctggcagtgtaagcctcagcagatcccccacagcaaatccagttgttacaagatgacaaa 780
Db 854 ctggcagtgtaagcctcagcagatcccccacagcaaatccagttgttacaagatgacaaa 913
QY 781 agactgtatgaaagaaagaggggtgaaagtggaaacagacacttctcttcaaaatc 840
Db 914 agactgtatgaaagaaagaggggtgaaagtggaaacagacacttctcttcaaaatc 973
QY 841 attcttcaatgtctcttgaacaatgacataggaacttaacttgcgtgcttccaaag 900
Db 974 attcttcaatgtctcttgaacaatgacataggaacttaacttgcgtgcttccaaag 1033
QY 901 ctgggcaacacccaatccagacatctgattgtgtccagggcgccgtaagcgaggtagc 960
Db 1034 ctgggcaacacccaatccagacatctgattgtgtccagggcgccgtaagcgaggtagc 1093
QY 961 aacggcagctgcagagagggcaggtcgctgctgctgctgcttcttgcactg 1020
Db 1094 aacggcagctgcagagagggcaggtcgctgctgctgctgcttcttgcactg 1153
QY 1021 ctctcaaat 1032
Db 1154 ctctcaaat 1165
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RESULT 12
US-10-013-918A-522
; Sequence 522, Application US/10013918A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijawin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C77
; CURRENT APPLICATION NUMBER: US/10/013, 918A
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/07450
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; PRIOR APPLICATION NUMBER: 60/077632
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077641
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077791
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; PRIOR APPLICATION NUMBER: 60/078004
; PRIOR FILING DATE: 1998-03-13
; PRIOR APPLICATION NUMBER: 60/078886
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20
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; PRIOR FILING DATE: 1998-03-20
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; PRIOR FILING DATE: 1998-03-25
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; PRIOR FILING DATE: 1998-03-26
; PRIOR APPLICATION NUMBER: 60/079664
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PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-30
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PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
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PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
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PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
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PRIOR APPLICATION NUMBER: 60/082804
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083316
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29

PRIOR APPLICATION NUMBER: 60/083496
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PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-29
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PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 6; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6,3e-250; Indels 0; Gaps 0;
Matches 1032; Conservative 0; Mismatches 0;

QY 1 atgaaaccttcagccaaatgacattctatctcttggcaatttcacgggctg 60
    |||||||
Db 134 atgaaaccttcagccaaatgacattctatctcttggcaatttcacgggctg 193
    |||||||
QY 61 gctgctctgtctcttccaagagtgcccgctgcgacggagatgccacttcccaa 120
    |||||||
Db 194 gctgctctgtctcttccaagagtgcccgctgcgacggagatgccacttcccaa 253
    |||||||
QY 121 gctatgacagtgacggttcggcagggagagggcacccttaagtgactattgac 180
    |||||||
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PRIOR FILING DATE: 1998-03-30
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 PRIOR APPLICATION NUMBER: 60/082569
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 PRIOR APPLICATION NUMBER: 60/082704
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 PRIOR FILING DATE: 1998-05-15
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 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085697
 PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 6; Length 1679;
 Best Local Similarity 100.0%; Pred. No. 6, 3e-290; Indels 0; Gaps 0;
 Matches 1032; Conservative 0; Mismatches 0;

QY 1 atgaacaacatccagcaaaatgacaaatctatctcttggcaatctcaaggagctg 60
 Db 134 atgaacaacatccagcaaaatgacaaatctatctcttggcaatctcaaggagctg 133
 QY 61 gctccttgctctcttccaaggagtgccgctgcgagcgagagatgcaacctcccaaa 120
 Db 194 gctccttgctctcttccaaggagtgccgctgcgagcgagagatgcaacctcccaaa 253
 QY 121 gcttgagcaagctgacgctccgagagggagagagcgcaacctcaagtgtgacattggac 180
 Db 254 gcttgagcaagctgacgctccgagagggagagagcgcaacctcaagtgtgacattggac 313
 QY 181 aacgggtcacccgggtgagcctggttaaacggagcaacacatctctatgtgggaatggac 240
 Db 314 aacgggtcacccgggtgagcctggttaaacggagcaacacatctctatgtgggaatggac 373
 QY 241 aagtggtgcttgatctctcgtgtgctctcttgagcaaacacccaacgaatagacatc 300
 Db 374 aagtggtgcttgatctctcgtgtgctctcttgagcaaacacccaacgaatagacatc 433
 QY 301 gagtcgaagcgtgagtgatgtatgagcagagggcccttaccctgtctgtgctgagacagac 360

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Db 434 gagatccagaacgtgatagtatgacgagggcccttacacctgctgtagcagacagac 493
QY 361 aacccccaaaagaccccttaggggttcacacctattgttcaagatctccccaaattgttagag 420
Db 494 aacccccaaaagaccccttaggggttcacacctattgttcaagatctccccaaattgttagag 553
QY 421 attcttcaatatctccattaatgaagggaaacaatatattagcttaccctgatagacact 480
Db 554 attcttcaatatctccattaatgaagggaaacaatatattagcttaccctgatagacact 613
QY 481 ggtagaccagagccttagcttacttggtagaacacatctctcccaagcggttggctttg 540
Db 614 ggtagaccagagccttagcttacttggtagaacacatctctcccaagcggttggctttg 673
QY 541 agtgaagaagaatcttgaatctcaggagatcacccggagacaaatcagggagatagag 600
Db 674 agtgaagaagaatcttgaatctcaggagatcacccggagacaaatcagggagatagag 733
QY 601 tgcagtgctcccaatgacgtgacgagcccgctgtagcaggagataaagttacaccgttagac 660
Db 734 tgcagtgctcccaatgacgtgacgagcccgctgtagcaggagataaagttacaccgttagac 793
QY 661 tatccaccatacatctcagaagccaaaggtacaggtgtcccccgtggagcaaaagggagaca 720
Db 794 tatccaccatacatctcagaagccaaaggtacaggtgtcccccgtggagcaaaagggagaca 853
QY 721 ctgcaagtgtgaagccctcagcagctccctcagcagaaattccagttgtataaagatgacaa 780
Db 854 ctgcaagtgtgaagccctcagcagctccctcagcagaaattccagttgtataaagatgacaa 913
QY 781 agactgattgaagaaagaaaggggtgaagttgaagaacagaccccttctctcaaaatc 840
Db 914 agactgattgaagaaagaaaggggtgaagttgaagaacagaccccttctctcaaaatc 973
QY 841 attcttcaatatctcctgaacatgactatgggaactacttgcgttgccttcaacaag 900
Db 974 attcttcaatatctcctgaacatgactatgggaactacttgcgttgccttcaacaag 1033
QY 901 ctgggccaacacacatcagcagcatatgtattgttgcagggcccgtaaggaagttagc 960
Db 1034 ctgggccaacacacatcagcagcatatgtattgttgcagggcccgtaaggaagttagc 1093
QY 961 aacggcagctcagagggagcagcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 1020
Db 1094 aacggcagctcagagggagcagcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 1153
QY 1021 cttctcaattt 1032
Db 1154 cttctcaattt 1165

RESULT 14
US-10-119-480-125
; Sequence 125, Application US/10119480
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Desnoyers, Luc Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe F.
; APPLICANT: Matanabe, Colin L.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3530P1C1
; CURRENT APPLICATION NUMBER: US/10/119,480
; CURRENT FILING DATE: 2002-04-09
; NUMBER OF SEQ ID NOS: 246
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 125
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; LENGTH: 1679
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-119-480-125

Query Match      100.0%; Score 1032; DB 6; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6,3e-290;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaaccatccagcccaaaatgacaatctctctcttgggcaattcttcagggctg 60
Db 134 atgaaccatccagcccaaaatgacaatctctctcttgggcaattcttcagggctg 193
QY 61 gctgcttgggtctcttcccaagagtgccgttggcagggagatgacacccctcccaaa 120
Db 194 gctgcttgggtctcttcccaagagtgccgttggcagggagatgacacccctcccaaa 253
QY 121 gctatgacaacgttgacggtcccgagggagagcgccacccctcaggtgacattgac 180
Db 254 gctatgacaacgttgacggtcccgagggagagcgccacccctcaggtgacattgac 313
QY 181 aacgggttccacccgggttggtcgtctaaacccgacacatctctatgtctggatgac 240
Db 314 aacgggttccacccgggttggtcgtctaaacccgacacatctctatgtctggatgac 373
QY 241 aagtggtgcttgatctctcgttggtctcttcttgagcaaccccaacccagatagacac 300
Db 374 aagtggtgcttgatctctcgttggtctcttcttgagcaaccccaacccagatagacac 433
QY 301 gagatccagaacgttgatgtgatacgaagggcccttacacctcgtcgttgcagacagac 360
Db 434 gagatccagaacgttgatgtgatacgaagggcccttacacctcgtcgttgcagacagac 493
QY 361 aacccccaaaagaccccttaggggttcacacctattgtcaaglatctccaaattgttagag 420
Db 494 aacccccaaaagaccccttaggggttcacacctattgtcaaglatctccaaattgttagag 553
QY 421 attcttcaatatctccattaatgaagggaaacaatatattagcttaccctgatagacact 480
Db 554 attcttcaatatctccattaatgaagggaaacaatatattagcttaccctgatagacact 613
QY 481 ggtagaccagagccttagcttacttggtagaacacatctctcccaagcggttggctttg 540
Db 614 ggtagaccagagccttagcttacttggtagaacacatctctcccaagcggttggctttg 673
QY 541 agtgaagaagaatcttgaatctcaggagatcacccggagacaaatcagggagatagag 600
Db 674 agtgaagaagaatcttgaatctcaggagatcacccggagacaaatcagggagatagag 733
QY 601 tgcagtgctcccaatgacgtgacgagcccgctgtagcaggagataaagttacaccgttagac 660
Db 734 tgcagtgctcccaatgacgtgacgagcccgctgtagcaggagataaagttacaccgttagac 793
QY 661 tatccaccatacatctcagaagccaaaggtacaggtgtcccccgtggagcaaaagggagaca 720
Db 794 tatccaccatacatctcagaagccaaaggtacaggtgtcccccgtggagcaaaagggagaca 853
QY 721 ctgcaagtgtgaagccctcagcagctccctcagcagaaattccagttgtataaagatgacaa 780
Db 854 ctgcaagtgtgaagccctcagcagctccctcagcagaaattccagttgtataaagatgacaa 913
QY 781 agactgattgaagaaagaaaggggtgaagttgaagaacagaccccttctctcaaaatc 840
Db 914 agactgattgaagaaagaaaggggtgaagttgaagaacagaccccttctctcaaaatc 973
QY 841 attcttcaatatctcctgaacatgactatgggaactacttgcgttgccttcaacaag 900
Db 974 attcttcaatatctcctgaacatgactatgggaactacttgcgttgccttcaacaag 1033
QY 901 ctgggccaacacatcagcagcatatgtattgttgcagggcccgtaaggaagttagc 960
Db 1034 ctgggccaacacatcagcagcatatgtattgttgcagggcccgtaaggaagttagc 1093
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QY 961 aacggacgctcagagagagcagcgtcgtctggtctgctcttctgtcttgcacccg 1020
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Db 1094 aacggacgctcagagagagcagcgtcgtctggtctgctcttctgtcttgcacccg 1153

QY 1021 ctctccaatt 1032
|||||
Db 1154 ctctccaatt 1165

RESULT 15

US-10-121-049-375
; Sequence 375, Application US/10121049
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Curney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C17
; CURRENT APPLICATION NUMBER: US/10/121,049
; CURRENT FILING DATE: 2002-04-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 375
; LENGTH: 1679
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-121-049-375

Query Match 100.0%; Score 1032; DB 6; Length 1679;
Best Local Similarity 100.0%; Pred. No. 6,3e-290;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaaacatccagcacaatgtcaatctctcttggcaatcttaagggtcg 60
|||||
Db 134 atgaaacatccagcacaatgtcaatctctcttggcaatcttaagggtcg 193
QY 61 gctgctctgtctcttccaaggagtgccgtgcagcggagatgcaccttcccaaa 120
|||||
Db 194 gctgctctgtctcttccaaggagtgccgtgcagcggagatgcaccttcccaaa 253
QY 121 gctatgacaacgtgacggtccggcaggggagagcgccacccctcaggtgactatgac 180
|||||
Db 254 gctatgacaacgtgacggtccggcaggggagagcgccacccctcaggtgactatgac 313
QY 161 aacccggtcacccgggtggtgctgtataacccgacgacacatctctatgctgggaatgac 240
|||||
Db 314 aacccggtcacccgggtggtgctgtataacccgacgacacatctctatgctgggaatgac 373
QY 241 aagtgtgctgctgctgctgctgctgcttcttgaacaacccaacgaacgaatgacgac 300
|||||
Db 374 aagtgtgctgctgctgctgctgctgcttcttgaacaacccaacgaacgaatgacgac 433
QY 301 gagatccagaacgtggtatgtatgacagagagccttaacotgtcgtgtcagacagac 360
|||||
Db 434 gagatccagaacgtggtatgtatgacagagagccttaacotgtcgtgtcagacagac 493

QY 361 aaccccccaagacctctagggtccacccatctgtcgaatctctcccaattgtagag 420
|||||
Db 494 aaccccccaagacctctagggtccacccatctgtcgaatctctcccaattgtagag 553
QY 421 attcttccagatctccatataatgaagggaacaatattagcttactctatagaacat 480
|||||
Db 554 attcttccagatctccatataatgaagggaacaatattagcttactctatagaacat 613
QY 481 ggtagaccagagcctcagcttacttggagacacatctctcccaagggtgtgtgtg 540
|||||
Db 614 ggtagaccagagcctcagcttacttggagacacatctctcccaagggtgtgtgtg 673
QY 541 agtgaagacgaatcttgaatccaatccaagcattccacccggagcagctcaggtactagag 600
|||||
Db 674 agtgaagacgaatcttgaatccaatccaagcattccacccggagcagctcaggtactagag 733
QY 601 tgcagtgctccatcgaatgacgtgtccggtcccggtgtgtcggagagtgtaaggtacccgtgtaac 660
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Db 734 tgcagtgctccatcgaatgacgtgtccggtcccggtgtgtcggagagtgtaaggtacccgtgtaac 793
QY 661 tatccaccatcattccagaagccaaggtacaggtgtcccggtgtgtcggagagtgtaaggtacccgtgtaac 720
|||||
Db 794 tatccaccatcattccagaagccaaggtacaggtgtcccggtgtgtcggagagtgtaaggtacccgtgtaac 853
QY 721 ctgcagtgtaagcctcagcaggtccctccagcaggaattccagtggtacaaagatgacaa 780
|||||
Db 854 ctgcagtgtaagcctcagcaggtccctccagcaggaattccagtggtacaaagatgacaa 913
QY 761 agactgttgaaggaaggaagggtgaaagtgaaggaagacacgttctctcaaaaac 840
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Db 914 agactgttgaaggaaggaagggtgaaagtgaaggaagacacgttctctcaaaaac 973
QY 841 attcttccaatgtctctgaacatgactatggaactacacttgcgtgtccccaacaa 900
|||||
Db 974 attcttccaatgtctctgaacatgactatggaactacacttgcgtgtccccaacaa 1033
QY 901 ctgggccaaccaatgccaagcattatgtatgtgtccagggcggtcagaggtgagc 960
|||||
Db 1034 ctgggccaaccaatgccaagcattatgtatgtgtccagggcggtcagaggtgagc 1093
QY 961 aacggacgctcagagagagcagcgtcgtctgctcttctcttctgtcttgcacccg 1020
|||||
Db 1094 aacggacgctcagagagagcagcgtcgtctgctcttctcttctgtcttgcacccg 1153
QY 1021 ctctccaatt 1032
|||||
Db 1154 ctctccaatt 1165

Search completed: July 12, 2002, 00:32:21
Job time: 11044 sec

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OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 20:38:02 ; Search time 5033.46 Seconds

(without alignments)
4435.759 Million cell updates/sec

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Gapop 10.0 , Gapext 1.0

Searched: 21979536 seqs, 10817449327 residues

Total number of hits satisfying chosen parameters: 43959072

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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1	1032	100.0	1032	28 US-09-700-397-1	Sequence 1, Appl
2	1032	100.0	1333	60 US-60-213-360-4483	Sequence 4483, Ap
3	1032	100.0	1679	17 US-09-380-138-522	Sequence 522, App
4	1032	100.0	1679	34 US-09-918-585A-522	Sequence 522, App
5	1032	100.0	1679	36 US-09-978-188A-522	Sequence 522, App
6	1032	100.0	1679	36 US-09-978-189-522	Sequence 522, App
7	1032	100.0	1679	36 US-09-978-191A-522	Sequence 522, App
8	1032	100.0	1679	36 US-09-978-192-522	Sequence 522, App
9	1032	100.0	1679	36 US-09-978-193A-522	Sequence 522, App
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22	1032	100.0	1679	36 US-09-978-697-522	Sequence 522, App
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29	1032	100.0	1679	36 US-09-999-834A-522	Sequence 522, App
30	1032	100.0	1679	37 US-10-002-796-103	Sequence 103, App
31	1032	100.0	1679	37 US-10-002-967A-522	Sequence 522, App

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

32	1032	100.0	1679	37	US-10-013-922A-522	Sequence 522, App
33	1032	100.0	1679	37	US-10-017-191A-522	Sequence 522, App
34	1032	100.0	1679	37	US-10-020-445A-522	Sequence 522, App
35	1032	100.0	1679	37	US-10-028-072-375	Sequence 375, App
36	1032	100.0	1679	37	US-10-066-193-103	Sequence 103, App
37	1032	100.0	1679	37	US-10-066-198-103	Sequence 103, App
38	1032	100.0	1679	37	US-10-066-203-103	Sequence 103, App
39	1032	100.0	1679	37	US-10-066-211-103	Sequence 103, App
40	1032	100.0	1679	37	US-10-066-269-103	Sequence 103, App
41	1032	100.0	1679	37	US-10-066-273-103	Sequence 103, App
42	1032	100.0	1679	37	US-10-066-494-103	Sequence 103, App
43	1032	100.0	1679	37	US-10-066-500-103	Sequence 103, App
44	1032	100.0	1679	37	US-10-081-056-55	Sequence 55, App1
45	1032	100.0	1693	28	US-09-700-397-2	Sequence 2, Appl1

ALIGNMENTS

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RESULT 1
US-09-700-397-1
; Sequence 1, Application US/09700397
; GENERAL INFORMATION:
; APPLICANT: Ono Pharmaceutical Co., Ltd.
; TITLE OF INVENTION: Novel Polypeptides, cDNA encoding the same, and use of them
; FILE REFERENCE: 061459
; CURRENT APPLICATION NUMBER: US/09/700,397
; CURRENT FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: JP 10-131815
; PRIOR FILING DATE: 1998-05-14
; PRIOR APPLICATION NUMBER: PCT/JP99/02485
; PRIOR FILING DATE: 1999-05-13
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 1032
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-700-397-1

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Query Match 100.0%; Score 1032; DB 28; Length 1032;
 Best Local Similarity 100.0%; Pred. No. 7,66-288;
 Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB	1	atgaaacatccagcccaaaatgacaattctatctcttggcaatttcaagggctg	60
QY	61	gtctctgtgtctcttccaaaggagtgcccgtagcgagagatgacaccttcccaaa	120
DB	61	gtctctgtgtctcttccaaaggagtgcccgtagcgagagatgacaccttcccaaa	120
QY	121	gcatggaacaagtgacggtccggaaggagagagcgacaccccttaagtgac	180
DB	121	gcatggaacaagtgacggtccggaaggagagagcgacaccccttaagtgac	180
QY	181	aaccgggtaccgggtggtcgtgttaaacgcagacacatctctatgctgggaatgac	240
DB	181	aaccgggtaccgggtggtcgtgttaaacgcagacacatctctatgctgggaatgac	240
QY	241	aagtgtgctgtgactcgtcgtgttctcttgagcaacccaacgaatagacatc	300
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QY	361	aaccacccaagaacctaggtgacacacatctgtgcaatctcccaaatcttagag	420
DB	361	aaccacccaagaacctaggtgacacacatctgtgcaatctcccaaatcttagag	420

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DB	481	ggtagaccagagcctaagtgtaattcttgagacacatctcccaagcggttgcttg	540
QY	541	agtgaaagacgaatttggaattcagggatcacccggagacagtgagacagag	600
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DB	661	tatccaccataatttcagaaaggaaggtacaggtgtcccgtagcacaagaggtgac	720
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QY	781	agactgtgaaggaaggaaggggtgaaggtgaagaacagacgttccctcaaac	840
DB	781	agactgtgaaggaaggaaggggtgaaggtgaagaacagacgttccctcaaac	840
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RESULT 2
US-60-213-360-4483
; Sequence 4483, Application US/60213360
; GENERAL INFORMATION:
; APPLICANT: Morris, MacDonald
; APPLICANT: Lal, Preeti
; TITLE OF INVENTION: Method for the identification of Sequence Polymorphisms in Polynucleotide Sequence Databases, and Single Nucleotide P
; FILE REFERENCE: GX-0014 P
; CURRENT APPLICATION NUMBER: US/60/213,360
; CURRENT FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 8347
; SOFTWARE: PERL Program
; SEQ ID NO 4483
; LENGTH: 1333
; TYPE: DNA
; ORGANISM: Homo sapiens
FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID NO: 228470.1
; NAME/KEY: unsure
; LOCATION: 120, 124, 169, 173
; OTHER INFORMATION: a, t, c, g, or other
US-60-213-360-4483

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Query Match 100.0%; Score 1032; DB 60; Length 1333;
Best Local Similarity 100.0%; Pred. No. 8,5e-288;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1201 ctcttcaattt 1212

RESULT 3
US-09-380-138-522
; Sequence 522, Application US/09380138
; GENERAL INFORMATION:
; APPLICANT: Wood, William I.
; APPLICANT: Goddard, Audrey
; APPLICANT: Guiney, Austin
; APPLICANT: Yuan, Jean
; APPLICANT: Baker, Kevin P.
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding the Same
; FILE REFERENCE: P2630RIE
; CURRENT APPLICATION NUMBER: US/09/380,138
; CURRENT FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
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; PRIOR APPLICATION NUMBER: US 60/084,643

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; PRIOR APPLICATION NUMBER: US 60/094,651
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; PRIOR FILING DATE: 1998-09-11
; NUMBER OF SEQ ID NOS: 538
; SEQ ID NO 522
; LENGTH: 1679
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-380-138-522

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Query Match 100.0%; Score 1032; DB 17; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9,5e+288;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 134 atgaaacccatccagcaaaaatgcacaaattctatctcttgggcaattctcaaggcgctg 193
QY 61 gctgctctgtgtctcttccaggaggtccctgtcgagcgagagatgccacttcccaaa 120
Db 194 gctgctctgtgtctcttccaggaggtccctgtcgagcgagagatgccacttcccaaa 253
QY 121 gctatggacaacgttcagcgttcggcagggggaagcgccaccctcaagtgcaattgac 180
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Query Match 100.0%; Score 1032; DB 34; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9.5e-288;
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QY 1 atgaataacatccagccaaatgcaaatctatctcttggcaattcttaagggctg 60
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QY 61 gctcctctgtctcttccaaagagtgcccgctgcagcgagagatgcaccttccaa 120
DB 194 gctcctctgtctcttccaaagagtgcccgctgcagcgagagatgcaccttccaa 253
QY 121 gctatgacaacgttacggtccgcaaggagagagcgccaccccttaagtgactatgac 180
DB 254 gctatgacaacgttacggtccgcaaggagagagcgccaccccttaagtgactatgac 313
QY 181 aacgggttaccocgggtgctgcttaaacgcagacacatctctatgctgggaatgac 240
DB 314 aacgggttaccocgggtgctgcttaaacgcagacacatctctatgctgggaatgac 373
QY 241 aagtggtgcttgatccctgcgctgtgctctttagcaacaccccaacgcatagacatc 300
DB 374 aagtggtgcttgatccctgcgctgtgctctttagcaacaccccaacgcatagacatc 433
QY 301 gagatccagaacgttgatgtatgacagagagcccttaacacgtgctggtgacagacag 360
DB 434 gagatccagaacgttgatgtatgacagagagcccttaacacgtgctggtgacagacag 493

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QY	361	aaccacccaagaacotctagggtgcacccctcttbtgaaagtatctctccaanaat'tgtaagg	420
Db	494	aaccacccaagaacotctagggtgcacccctcttbtgaaagtatctctccaanaat'tgtaagg	553
QY	421	attctctcaagatctccatcatatgaagggaacatatcttagctctaccctcatagaact	480
Db	554	attctctcaagatctccatcatatgaagggaacatatcttagctctaccctcatagaact	613
QY	481	ggttagaccagagctctacgttcttcttgtagagacacatctctcccaagcggtttgcttctg	540
Db	614	ggttagaccagagctctacgttcttcttgtagagacacatctctcccaagcggtttgcttctg	673
QY	541	agttgaagaacgaatacttggaaattcagggcatcaccccgggagcagtcaggggactacgag	600
Db	674	agttgaagaacgaatacttggaaattcagggcatcaccccgggagcagtcaggggactacgag	733
QY	601	tgcagttgctcccaatgaagctggtgcggcccggtgtacggagggataaaggttcctcggaac	660
Db	734	tgcagttgctcccaatgaagctggtgcggcccggtgtacggagggataaaggttcctcggaac	793
QY	661	tatccacacatacttctcagaagccaagggtatcagggtgtccccgttgagacaagaagggaaca	720
Db	794	tatccacacatacttctcagaagccaagggtatcagggtgtccccgttgagacaagaagggaaca	853
QY	721	ctgcagtgtagaagcctcagcaagctccctccatgcagaattcccaagtgtgtacaaagtacaa	780
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QY	841	atcttctcattctctctcgaacatgactatggaactacacttctggtgctccacaag	900
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QY	901	ctggggccaacccaatgacagatcatgctatttggtccaaagcgcgctcagatgagtgtagc	960
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QY	961	aacggcagatgcaggagggagcaggctggtcgtctgctgcgtcctcttctgtcttctacag	1020
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US-09-978-188A-522			
: Sequence 522, Application US/09978188A			
: GENERAL INFORMATION:			
: APPLICANT: Ashkenazi, Avi			
: APPLICANT: Baker Kevin P.			
: APPLICANT: Botstein, David			
: APPLICANT: Desnoyers, Luc			
: APPLICANT: Eaton, Dan			
: APPLICANT: Ferrara, Napoleon			
: APPLICANT: Fliviaroff, Ellen			
: APPLICANT: Fong, Sherman			
: APPLICANT: Gao, Wei-Qiang			
: APPLICANT: Gerber, Hanspeter			
: APPLICANT: Gerlitsen, Mary E.			
: APPLICANT: Goddard, Audrey			
: APPLICANT: Godowski, Paul J.			
: APPLICANT: Grimaldi, J. Christopher			
: APPLICANT: Gurney, Austin L.			
: APPLICANT: Hillan, Kenneth J.			
: APPLICANT: Kijavlin, Ivar J.			
: APPLICANT: Kuo, Sophia S.			
: APPLICANT: Napier, Mary A.			
: APPLICANT: Pan, James:			

1	APPLICANT: Paoli, Nicholas F.
2	APPLICANT: Roy, Margaret Ann
3	APPLICANT: Shelton, David L.
4	APPLICANT: Stewart, Timothy A.
5	APPLICANT: Tumas, Daniel
6	APPLICANT: Williams, P. Mickey
7	APPLICANT: Wood, William I.
8	TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
9	FILE REFERENCE: P2630P1C8
10	CURRENT FILING DATE: 2001-10-15
11	PRIOR APPLICATION NUMBER: 09/918555
12	PRIOR FILING DATE: 2001-07-30
13	PRIOR APPLICATION NUMBER: 60/062250
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Query Match 100.0%; Score 1032; DB 36; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9,5e-288;

Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaataacatccagcacaataatgcacaaattctatctcttggaatcttcacgggctg 60
Db 134 atgaataacatccagcacaataatgcacaaattctatctcttggaatcttcacgggctg 193
QY 61 gctgcctctgtctctcttcacagagatgcccgtgcgcagcggaagatgcaccttcccaaa 120
Db 194 gctgcctctgtctctcttcacagagatgcccgtgcgcagcggaagatgcaccttcccaaa 253
QY 121 gctatggaacagtgacggtccgcaggggagagcgccaccctcaggtgcactattgac 180
Db 254 gctatggaacagtgacggtccgcaggggagagcgccaccctcaggtgcactattgac 313
QY 181 aaccggttcacccggtggtccctggtctaaccgcaacacatctctatgtctggaatgac 240
Db 314 aaccggttcacccggtggtccctggtctaaccgcaacacatctctatgtctggaatgac 373
QY 241 aagtggtccgtggtatctcttcgcgtggtccttcgagcaacacccaaagcgatcacgac 300
Db 374 aagtggtccgtggtatctcttcgcgtggtccttcgagcaacacccaaagcgatcacgac 433
QY 301 ggaatccagaaagtgatgtgtatgacgagggcccttaacacctgctggtgcaacagac 360
Db 434 ggaatccagaaagtgatgtgtatgacgagggcccttaacacctgctggtgcaacagac 493
QY 361 aaccacccaagacaccttaaggttcacacctatgtgcaagtatctcccaaatgtlagag 420
Db 494 aaccacccaagacaccttaaggttcacacctatgtgcaagtatctcccaaatgtlagag 553
QY 421 attctttagatctctcatatgaatgaaggaacatatattagcctacctgcataagcaact 480
Db 554 attctttagatctctcatatgaatgaaggaacatatattagcctacctgcataagcaact 613
QY 481 ggtagaccagagcctacggttacttggagaacacatctctcccaagcggttgcttgg 540
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QY 541 agtgaagcgaatacttggaaattcaggcgcacaccggagcagtcagggactaacgag 600
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Db 674 agtgaagcgaatacttggaaattcaggcgcacaccggagcagtcagggactaacgag 733
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QY 661 tatccaccatacttcagaagcgaaggtacaggtgtcccgctgggacaaaaggagaca 720
|||||
Db 794 tatccaccatacttcagaagcgaaggtacaggtgtcccgctgggacaaaaggagaca 853
QY 721 ctgcagtgtaagcctcagagcagccctcagcagaattccagtgtaacaagatgacaa 780
|||||
Db 854 ctgcagtgtaagcctcagagcagccctcagcagaattccagtgtaacaagatgacaa 913
QY 781 agactgattgaaggaagaaagggtgaaagctggaagaaacagacttctctcaaaactc 840
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Db 914 agactgattgaaggaagaaagggtgaaagctggaagaaacagacttctctcaaaactc 973
QY 841 atcttctcaatgtctctgaaactgactatggaactacattcgctggcctccaacag 900
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QY 901 ctgggcccacccaatgcccagcatcatgtatttgctccaggcgcgtcagcgaagtgaac 960
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Db 1154 ctctcaaatlt 1165
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RESULT 6
US-09-700-189-522
Sequence 522, Application US/09978189
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15

PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
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; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

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Query Match 100.0%; Score 1032; DB 36; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9,5e-288; Indels 0; Gaps 0;
Matches 1032; Conservative 0; Mismatches 0;

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QY 61 gctgctgtgtctcttccaagagtgccgtgcaagcgagatgcaacttcccaaa 120
Db 194 gctgctgtgtctcttccaagagtgccgtgcaagcgagatgcaacttcccaaa 253
QY 121 gctatgacaactgacggtccggaagggagagagcgcaaccttaagtgacttgac 180
Db 254 gctatgacaactgacggtccggaagggagagagcgcaaccttaagtgacttgac 313
QY 181 aaccgggtcccggtgtgctgtgcaacccgcaacctctctatgctgggaatgac 240
Db 314 aaccgggtcccggtgtgctgtgcaacccgcaacctctctatgctgggaatgac 373
QY 241 aagtggtgctgtgctcgtgctgtgctcttctggaacacccaagcgatgacgac 300
Db 374 aagtggtgctgtgctcgtgctgtgctcttctggaacacccaagcgatgacgac 433
QY 301 gagatcagaactgtgattgtatgacagggcccttaacctgtcgtgacagagac 360
Db 434 gagatcagaactgtgattgtatgacagggcccttaacctgtcgtgacagagac 493
QY 361 aaccacccaagaccttaggttccacctatgtgaagtatctccaaatgttagag 420
Db 494 aaccacccaagaccttaggttccacctatgtgaagtatctccaaatgttagag 553
QY 421 attcttcgaatatccatgaatgaagggaacaatatagcctcaactgcatagcaact 480
Db 554 attcttcgaatatccatgaatgaagggaacaatatagcctcaactgcatagcaact 613
QY 481 ggtgaccagaagcctcgttacttggaagacaactctccaaacggttgcttggtg 540
Db 614 ggtgaccagaagcctcgttacttggaagacaactctccaaacggttgcttggtg 673
QY 541 aatgaagacgaatacttgaataatcaggacacccgggagagtcaggggactagag 600
Db 674 aatgaagacgaatacttgaataatcaggacacccgggagagtcaggggactagag 733
QY 601 tgcagtgctccaatgacgtgacgacgacgtgtgtacgagagtaaggtcacggtgac 660
Db 734 tgcagtgctccaatgacgtgacgacgacgtgtgtacgagagtaaggtcacggtgac 793
QY 661 tatccacatacatcttcaagaagcgaaggttcaaggttcccggtggaacaaaggagaca 720
Db 794 tatccacatacatcttcaagaagcgaaggttcaaggttcccggtggaacaaaggagaca 853

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QY 721 ctgcagtgtaagcctcagcagtcctccctcagcagaaattccagtggtacaagatgacaa 780
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QY 781 agactgattgaagaagaaggggtgaagtgaagaacagccttctcctcaaatc 840
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Db 914 agactgattgaagaagaaggggtgaagtgaagaacagccttctcctcaaatc 973
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QY 841 attcttcaatgtctctgaacatgactggaactgaactgttggtcctcaacaag 900
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Db 974 attcttcaatgtctctgaacatgactggaactgaactgttggtcctcaacaag 1033
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RESULT 7
US-09-978-191A-522
; Sequence 522, Application US/09978191A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlisen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavrin, Ivar S.
; APPLICANT: Kno, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C4
; CURRENT APPLICATION NUMBER: US/09/978,191A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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; PRIOR APPLICATION NUMBER: 60/079664
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Query Match 100.0%; Score 1032; DB 36; Length 1679;
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QY 241 aagtgtgtgcttgatctctcgctgtgtctctctatgacaaccccaacgactaagatc 300
DB 374 aagtgtgtgcttgatctctcgctgtgtctctctatgacaaccccaacgactaagatc 433
QY 301 gagtccagaacgtgatagtgataagagagcccttaacacctgctgctgtaacagac 360
DB 434 gagtccagaacgtgatagtgataagagagcccttaacacctgctgctgtaacagac 493
QY 361 aaccacccaaagaccttaggggtccacctcatgtgtgaaatctctccaaaattgtagag 420
DB 494 aaccacccaaagaccttaggggtccacctcatgtgtgaaatctctccaaaattgtagag 553
QY 421 attctccaatatctccatataatgaagggaacaaatattagctactctgataagacact 480
DB 554 attctccaatatctccatataatgaagggaacaaatattagctactctgataagacact 613
QY 481 ggtgaccagaagcctacggttacttgtagagacacatctctccaaagcggttggcttgtg 540
DB 614 ggtgaccagaagcctacggttacttgtagagacacatctctccaaagcggttggcttgtg 673
QY 541 agtgaagaacgaatacttggaattcaaggacatccacggagacgtcaaggactacgag 600
DB 674 agtgaagaacgaatacttggaattcaaggacatccacggagacgtcaaggactacgag 733
QY 601 tgcagttccccaatgacgttgcgcgcgtggttagagaglaaagttacacggtgaac 660
DB 734 tgcagttccccaatgacgttgcgcgcgtggttagagaglaaagttacacggtgaac 793
QY 661 latccacacacattccagaagcgaaggtacaggttcccccgtgagcaaaaggagaca 720
DB 794 latccacacacattccagaagcgaaggtacaggttcccccgtgagcaaaaggagaca 853
QY 721 ctgcaggttgaaagcctcagcagctccctcagcagaattccagtgatgaagaagtacaa 780
DB 854 ctgcaggttgaaagcctcagcagctccctcagcagaattccagtgatgaagaagtacaa 913
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QY 841 attcttccaatgctctgaacatactatgagacactgacgtgctgctccaaag 900
DB 974 attcttccaatgctctgaacatactatgagacactgacgtgctgctccaaag 1033

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DB	134	atgaaacacatccacagccaaaatgacaaattctatctcttggggaattcttaacgggctg	193
QY	61	gctgcctctgtgctcttccaaagagctgcccggcgagcgagatgctccacttcccaaa	120
DB	194	gctgcctctgtgctcttccaaagagagctgcctggcgagcgagatgctccacttcccaaa	253
QY	121	gctatggaacaacgtgacgctctccggcgagggagagcgccacctcagtgacattaac	180
DB	254	gctatggaacaacgtgacgctctccggcgagggagagcgccacctcagtgacattaac	313
QY	181	aaccgggttaacccgggtgagccttgctgtcaaacgcagcacactctctatgtctggaattac	240
DB	314	aaccgggttaacccgggtgagccttgctgtgtcaaacgcagcacactctctatgtctggaattac	373
QY	241	aagctgtgtcttggaatccctcgcgtgtgctctctctcagaaacacccaaacgcagtaacgatac	300
DB	374	aagctgtgtcttggaatccctcgcgtgtgctctctcagaaacacccaaacgcagtaacgatac	433
QY	301	gaatatccagaacgctgagatgctgatactgacacggggcccttcaacgtctctgtgtagagaaagc	360
DB	434	gaatatccagaacgctgagatgctgatactgacacggggcccttcaacgtctctgtgtagagaaagc	493
QY	361	aaccaccccaaaagacccctcagaggtctccacccctcatcttgagcaagratctccaaaattgtagag	420
DB	494	aaccaccccaaaagacccctcagaggtctccacccctcatcttgagcaagratctccaaaattgtagag	553
QY	421	attcttccagatatctccatataagaaagggaacatatatacctccactctgcatagaact	480
DB	554	attcttccagatatctccatataagaaagggaacatatatacctccactctgcatagaact	613
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DB	614	gtgtagacacagacgtacagctgatacttgtagaacaacatctctccaaagcgtgttgcttg	673
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DB	674	agtgaagacgcgaatacttggaaattcagggatccacccggcgagactcaagggtactacgag	733
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DB	854	ctgcgagtgtggaagcctccaagcagcttccctccaagcaaatctccagctgtgtacaagatgaca	913
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QY	901	ctgggcccacaacaatgcccagaatcatatgctatttggctcaaggccgcgtccagcgagggtgagc	960
DB	1034	ctgggcccacaacaatgcccagaatcatatgctatttggctcaaggccgcgtccagcgagggtgagc	1093
QY	961	aacgcgacgtctcaggaaggcagcgctgctctgcctgcctctctcgtcttgctgacacgtg	1020
DB	1094	aacgcgacgtctcaggaaggcagcgctgctctgcctgcctctctcgtcttgctgacacgtg	1153
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RESULT 9
US-09-978-192A-522
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James.
; APPLICANT: Panol, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC9
; CURRENT APPLICATION NUMBER: US/09/978,192A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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? PRIOR FILING DATE: 1998-05-15
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Query Match 100.0%; Score 1032; DB 36; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9.5e-288;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 gctgctctgtctcttccaagaggtccgttgcagcgagagatgccaacttcccaa 120
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Db 194 gctgctctgtctcttccaagaggtccgttgcagcgagagatgccaacttcccaa 253
QY 121 gctatgacaagtgacggtccgagcgagagagagcgccaccctcaagtgacattgac 180
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QY 181 aaccgggtaccgggtggtgctgttaaacggagacacatctctatgctggaaatgac 240
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QY 241 aagtgtgctgtgatctctgcgtgtctcttctgaagaaacccaaacgagtaagatc 300
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Db 374 aagtgtgctgtgatctctgcgtgtctcttctgaagaaacccaaacgagtaagatc 433
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Db 494 aaccacccaagagcccttgagggtccacccaattgtgcaatctctccaaatgtagag 553
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RESULT 10
US-09-978-193A-522
; Sequence 522, Application US/09978193A
; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaoroff, Ellen

APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James J.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunes, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C6
CURRENT APPLICATION NUMBER: US/09/978,193A
CURRENT FILING DATE: 2002-02-21
PRIOR APPLICATION NUMBER: 08/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR FILING DATE: 1998-03-30

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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083500

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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
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; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
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; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
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; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
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; PRIOR APPLICATION NUMBER: 60/085689
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; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

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Query Match 100.0%; Score 1032; DB 36; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9, 5e-288;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 atgaataaccatccagcccaaaatgacaaattctatctcttggcgaattcttcagggtg 60
   |||||||
Db 134 atgaataaccatccagcccaaaatgacaaattctatctcttggcgaattcttcagggtg 193

QY 61 gctgctctgtctcttccaagagtgcccggtgcgagcgagatgcaacttccccaa 120
   |||||||
Db 194 gctgctctgtctcttccaagagtgcccggtgcgagcgagatgcaacttccccaa 253

QY 121 gctatggaacagtgaggtccgagcgagggagagcgccacccctccaggtgactatgac 180
   |||||||
Db 254 gctatggaacagtgaggtccgagcgagggagagcgccacccctccaggtgactatgac 313

QY 181 aacgggtcacccgggtggtcgtgtaaacgcagacacatctctatgttgggaatgac 240
   |||||||
Db 314 aacgggtcacccgggtggtcgtgtaaacgcagacacatctctatgttgggaatgac 373

QY 241 aagtgtgtcctgatactcctcgctgtctcttctgagcaacacccaagcaagcagc 300
   |||||||
Db 374 aagtgtgtcctgatactcctcgctgtctcttctgagcaacacccaagcaagcagc 433

QY 301 gagatccgaacgtggtgtgtatgacggggcccttacaactgtctcgtgtgcagcaac 360
   |||||||
Db 434 gagatccgaacgtggtgtgtatgacggggcccttacaactgtctcgtgtgcagcaac 493

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QY 361 aaccaccacaagacccctaggtgtccacctatgttgaagatctcccaaatgttagag 420
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Db 494 aaccaccacaagacccctaggtgtccacctatgttgaagatctcccaaatgttagag 553

QY 421 attcttcagatctccattatgaaggaacaatatatagctccatgatagaact 480
   |||||||
Db 554 attcttcagatctccattatgaaggaacaatatatagctccatgatagaact 613

QY 481 gtagaacagacctaagcttacttggagacacatctcccaagcggtgtgtgtg 540
   |||||||
Db 614 gtagaacagacctaagcttacttggagacacatctcccaagcggtgtgtgtg 673

QY 541 agtgaagaacgaacttggaaatccaggtacatcccggaacagtcagggaactagag 600
   |||||||
Db 674 agtgaagaacgaacttggaaatccaggtacatcccggaacagtcagggaactagag 733

QY 601 tgcaggtgtccctcaatgacgtgtgcgcgcgcgtgtgtatcgagagtaaaagttacccgtgaac 660
   |||||||
Db 734 tgcaggtgtccctcaatgacgtgtgcgcgcgcgtgtgtatcgagagtaaaagttacccgtgaac 793

QY 661 tatccaccatacatlucagaagaagcgaaggtacaggtgtcccggtggacaagaggagaca 720
   |||||||
Db 794 tatccaccatacatlucagaagaagcgaaggtacaggtgtcccggtggacaagaggagaca 853

QY 721 ctgcaggtgtgaagcctcagcagtcctccctcagcaggaattccagttgtacaaagatgaca 780
   |||||||
Db 854 ctgcaggtgtgaagcctcagcagtcctccctcagcaggaattccagttgtacaaagatgaca 913

QY 781 agactgttgaaggaagaaggggtgaaggtgaagaacagacacttctcccaaaactc 840
   |||||||
Db 914 agactgttgaaggaagaaggggtgaaggtgaagaacagacacttctcccaaaactc 973

QY 841 actcttccaatgtctctgaacatgacataggaactacacttgcgtgtgctcccaaaag 900
   |||||||
Db 974 actcttccaatgtctctgaacatgacataggaactacacttgcgtgtgctcccaaaag 1033

QY 901 ctgggccaacccaatccagcatatgtctattgttccagggcgccgtaagcgaggtgagc 960
   |||||||
Db 1034 ctgggccaacccaatccagcatatgtctattgttccagggcgccgtaagcgaggtgagc 1093

QY 961 aacggcaagtcgaggaaggaagcagctgcctcgtgtgctgctcttctgttctgacactg 1020
   |||||||
Db 1094 aacggcaagtcgaggaaggaagcagctgcctcgtgtgctgctcttctgttctgacactg 1153

QY 1021 ctctccaattt 1032
   |||||||
Db 1154 ctctccaattt 1165

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RESULT 11
US-09-978-194A-522
; Sequence 522, Application US/09978194A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gertlsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.

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APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C10
CURRENT APPLICATION NUMBER: US/09/978,194A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918555
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
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PRIOR FILING DATE: 1998-03-10
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PRIOR FILING DATE: 1998-05-06
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PRIOR APPLICATION NUMBER: 60/084639

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? PRIOR FILING DATE: 1998-05-15
? PRIOR APPLICATION NUMBER: 60/085704
? PRIOR FILING DATE: 1998-05-15
? PRIOR APPLICATION NUMBER: 60/085697
? PRIOR FILING DATE: 1998-05-15

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Query Match          100.0%; Score 1032; DB 36; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9; Se-288;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 atgaaaacatccagcaaaaatcacatctatctctggaacatccagggcgtg 60
DB 134 atgaaaacatccagcaaaaatcacatctatctctggaacatccagggcgtg 193
QY 61 gctgctgtgtctctccaaagagtgccgtgcaagcgagatgcacactcccaaa 120
DB 194 gctgctgtgtctctccaaagagtgccgtgcaagcgagatgcacactcccaaa 253
QY 121 gctatgacaacgtgacggtccgcaaggagggagagcgcaaccttaagttgacattggac 180
DB 254 gctatgacaacgtgacggtccgcaaggagggagagcgcaaccttaagttgacattggac 313
QY 181 aaccgggtacccgggtggtcgtgtaaacggcagcaacatctctatgctgggaatggac 240
DB 314 aaccgggtacccgggtggtcgtgtaaacggcagcaacatctctatgctgggaatggac 373
QY 241 aagtggtcctgatacctcgtgctgctctctctgagcaacacccaacagcagtaagacatc 300
DB 374 aagtggtcctgatacctcgtgctgctctctctgagcaacacccaacagcagtaagacatc 433
QY 301 gagatcagaacgtgagatgtgatacgaagggcccttaacactgctcgtgtgcagacagac 360
DB 434 gagatcagaacgtgagatgtgatacgaagggcccttaacactgctcgtgtgcagacagac 493
QY 361 aaccacccaagacccctggtggttcacactctgtgaagtatctcccaaatgttagag 420
DB 494 aaccacccaagacccctggtggttcacactctgtgaagtatctcccaaatgttagag 553
QY 421 attcttcagatctccatctaatgaaggaacataatgagcctcagctcagtagcaact 480
DB 554 attcttcagatctccatctaatgaaggaacataatgagcctcagctcagtagcaact 613
QY 481 ggtagaccagagcctacggttacttgagagacacatctctccaaagcgtgtgctttgtg 540
DB 614 ggtagaccagagcctacggttacttgagagacacatctctccaaagcgtgtgctttgtg 673

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QY 541 agtgaagacagatacttgtaaatcagggcattcacccgggagcaatcagggactacag 600
DB 674 agtgaagacagatacttgtaaatcagggcattcacccgggagcaatcagggactacag 733
QY 601 tgcagtgctcccaatgacgtggtccggtggtgtaagagagtaaggttaccgttgac 660
DB 734 tgcagtgctcccaatgacgtggtccggtggtgtaagagagtaaggttaccgttgac 793
QY 661 tatccacatcatcttaagaagcgaaggtgtacaggtgtcccggtggagcaaaaggggaca 720
DB 794 tatccacatcatcttaagaagcgaaggtgtacaggtgtcccggtggagcaaaaggggaca 853
QY 721 ctgcagtgtaagcctcagcaggtccctcagcagaattcagtggtacaaagtgacaa 780
DB 854 ctgcagtgtaagcctcagcaggtccctcagcagaattcagtggtacaaagtgacaa 913
QY 781 agactgattgaagaaagaaaggggtgaaagtggaaacacaaacttccctcaaaactc 840
DB 914 agactgattgaagaaagaaaggggtgaaagtggaaacacaaacttccctcaaaactc 973
QY 841 attcttcagatgtctctggaacatgactatggaactacacttgcgtggtcccaaaag 900
DB 974 attcttcagatgtctctggaacatgactatggaactacacttgcgtggtcccaaaag 1033
QY 901 ctgggcaacacccaatgcagcatcatgctattgtgtcgaagcgccgtccagcggtgagc 960
DB 1034 ctgggcaacacccaatgcagcatcatgctattgtgtcgaagcgccgtccagcggtgagc 1093
QY 961 aacggcagctcgaagagagcggtggtgtggtgtggtgtggtgtggtgtggtgtgac 1020
DB 1094 aacggcagctcgaagagagcggtggtgtggtgtggtgtggtgtggtgtggtgtgac 1153
QY 1021 ctcttcgaattt 1032
DB 1154 ctcttcgaattt 1165

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RESULT 12
US-09-978-295A-522
; Sequence 522; Application US/0978295A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltzen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillman, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1011
; CURRENT APPLICATION NUMBER: US/09/978.295A

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PRIOR APPLICATION NUMBER: 1998-04-09	PRIOR FILING DATE: 1998-04-09	PRIOR APPLICATION NUMBER: 60/081229	PRIOR FILING DATE: 1998-04-09	PRIOR APPLICATION NUMBER: 60/081955	PRIOR FILING DATE: 1998-04-15	PRIOR APPLICATION NUMBER: 60/081817	PRIOR FILING DATE: 1998-04-15	PRIOR APPLICATION NUMBER: 60/081819	PRIOR FILING DATE: 1998-04-15	PRIOR APPLICATION NUMBER: 60/081952	PRIOR FILING DATE: 1998-04-15	PRIOR APPLICATION NUMBER: 60/081838	PRIOR FILING DATE: 1998-04-15	PRIOR APPLICATION NUMBER: 60/082568	PRIOR FILING DATE: 1998-04-21	PRIOR APPLICATION NUMBER: 60/082569	PRIOR FILING DATE: 1998-04-21	PRIOR APPLICATION NUMBER: 60/082704	PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082804	PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082700	PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082797	PRIOR FILING DATE: 1998-04-22	PRIOR APPLICATION NUMBER: 60/082796	PRIOR FILING DATE: 1998-04-23	PRIOR APPLICATION NUMBER: 60/083336	PRIOR FILING DATE: 1998-04-27	PRIOR APPLICATION NUMBER: 60/083322	PRIOR FILING DATE: 1998-04-28	PRIOR APPLICATION NUMBER: 60/083392	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083495	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083496	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083499	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083545	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083554	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083558	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083559	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083500	PRIOR FILING DATE: 1998-04-29	PRIOR APPLICATION NUMBER: 60/083742	PRIOR FILING DATE: 1998-04-30	PRIOR APPLICATION NUMBER: 60/084366	PRIOR FILING DATE: 1998-05-05	PRIOR APPLICATION NUMBER: 60/084414	PRIOR FILING DATE: 1998-05-06	PRIOR APPLICATION NUMBER: 60/084637	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084639	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084640	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084627	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/084643	PRIOR FILING DATE: 1998-05-07	PRIOR APPLICATION NUMBER: 60/085339
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? PRIOR FILING DATE: 1998-05-15

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Query Match 100.0%; Score 1032; DB 36; Length 1679;

Best local Similarity 100.0%; Pred. No. 9, 5e-288;

Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 atgaaaccatccagcccaaaatgacatctctctctggaatcttccacgggctg 60
DB 134 atgaaaccatccagcccaaaatgacatctctctggaatcttccacgggctg 193
QY 61 gctgctctgctctctcccaaggagctccgctgcagcagagatgcccaccccaa 120
DB 194 gctgctctgctctctcccaaggagctccgctgcagcagagatgcccaccccaa 253
QY 121 gctatgacaacgtgaagctgcagcagcagcagcagcagcagcagcagcagc 180
DB 254 gctatgacaacgtgaagctgcagcagcagcagcagcagcagcagcagcagc 313
QY 181 aaccgggtaccggggtgctgctgctgctgctgctgctgctgctgctgctgctg 240
DB 314 aaccgggtaccggggtgctgctgctgctgctgctgctgctgctgctgctgctg 373
QY 241 aagtggtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 300
DB 374 aagtggtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 433
QY 301 gagatccagaacgtgagatgagatgagatgagatgagatgagatgagatgagat 360
DB 434 gagatccagaacgtgagatgagatgagatgagatgagatgagatgagatgagat 493
QY 361 aaccacccaaagaccccttagggtccaccccttagggtccaccccttagggtcc 420
DB 494 aaccacccaaagaccccttagggtccaccccttagggtccaccccttagggtcc 553
QY 421 attcctcagatatctccattatgaagggaacaaatattagctccatgacgaact 480
DB 554 attcctcagatatctccattatgaagggaacaaatattagctccatgacgaact 613
QY 481 ggtagaccagagcctacgttacttggagacacatctctccaaagcggttgcttgg 540
DB 614 ggtagaccagagcctacgttacttggagacacatctctccaaagcggttgcttgg 673
QY 541 agtgaagaacgaatacttgaataattcagagatccacccggagcagatccagggatcagag 600
DB 674 agtgaagaacgaatacttgaataattcagagatccacccggagcagatccagggatcagag 733
QY 601 tgcagtgctcccaatagcgtggcgccgctgtgtaacgagatgaaagttacccgtgaac 660
DB 734 tgcagtgctcccaatagcgtggcgccgctgtgtaacgagatgaaagttacccgtgaac 793
QY 661 tatccacatatattccagaagcgaaggtacaggtgtcccgtygggacaaggggaca 720
DB 794 tatccacatatattccagaagcgaaggtacaggtgtcccgtygggacaaggggaca 853

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QY 721 ctgcagctgtaagcctcagcagctccctccagcagaattccagtggtgtacaaagatgacaaa 780
DB 854 ctgcagctgtaagcctcagcagctccctccagcagaattccagtggtgtacaaagatgacaaa 913
QY 781 agactgattgaaggaagaaaggggtgaaagtgaagaaacagaccttctcctcacaactc 840
DB 914 agactgattgaaggaagaaaggggtgaaagtgaagaaacagaccttctcctcacaactc 973
QY 841 acctcttcaatgtctctgaacatgacatggaactacacttgctggtcctccaagaag 900
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QY 901 ctgggccaaccacaaatgccaagatcatgtctattgtgccagggcgctcagcaggtgagc 960
DB 1034 ctgggccaaccacaaatgccaagatcatgtctattgtgccagggcgctcagcaggtgagc 1093
QY 961 aacggcagctcgaaggaagggcagcctgctgctgctgctgctgctgctgctgctgctg 1020
DB 1094 aacggcagctcgaaggaagggcagcctgctgctgctgctgctgctgctgctgctgctg 1153
QY 1021 ctctccaattt 1032
DB 1154 ctctccaattt 1165

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RESULT 13

US-09-978-298A-522

Sequence 522, Application US/09978298A

GENERAL INFORMATION:

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? APPLICANT: Ashkenazi, Avi
? APPLICANT: Baker Kevin P.
? APPLICANT: Bolstein, David
? APPLICANT: Desnoyers, Luc
? APPLICANT: Eaton, Dan
? APPLICANT: Ferrara, Napoleon
? APPLICANT: Filvaroff, Ellen
? APPLICANT: Fong, Sherman
? APPLICANT: Gao, Wei-Qiang
? APPLICANT: Gerber, Hanspeter
? APPLICANT: Gerritsen, Mary E.
? APPLICANT: Goddard, Audrey
? APPLICANT: Godowski, Paul J.
? APPLICANT: Grimaldi, J. Christopher
? APPLICANT: Gurney, Austin E.
? APPLICANT: Hillan, Kenneth J.
? APPLICANT: Kljavin, Ivar J.
? APPLICANT: Kuo, Sophia S.
? APPLICANT: Napier, Mary A.
? APPLICANT: Pan, James
? APPLICANT: Paoni, Nicholas F.
? APPLICANT: Roy, Margaret Ann
? APPLICANT: Shelton, David L.
? APPLICANT: Stewart, Timothy A.
? APPLICANT: Tumas, Daniel
? APPLICANT: Williams, P. Mickey
? APPLICANT: Wood, William I.
? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
? FILE REFERENCE: P2630PIC2
? CURRENT APPLICATION NUMBER: US/09/978, 298A
? CURRENT FILING DATE: 2001-10-15
? PRIOR APPLICATION NUMBER: 09/918585
? PRIOR FILING DATE: 2001-07-30
? PRIOR APPLICATION NUMBER: 60/062250
? PRIOR FILING DATE: 1997-10-17
? PRIOR APPLICATION NUMBER: 60/064249
? PRIOR FILING DATE: 1997-11-03
? PRIOR APPLICATION NUMBER: 60/065311
? PRIOR FILING DATE: 1997-11-13
? PRIOR APPLICATION NUMBER: 60/066364
? PRIOR FILING DATE: 1997-11-21
? PRIOR APPLICATION NUMBER: 60/077450

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1	PRIOR APPLICATION NUMBER: 60/081838
2	PRIOR FILING DATE: 1998-04-15
3	PRIOR APPLICATION NUMBER: 60/082568
4	PRIOR FILING DATE: 1998-04-21
5	PRIOR APPLICATION NUMBER: 60/082569
6	PRIOR FILING DATE: 1998-04-21
7	PRIOR APPLICATION NUMBER: 60/082704
8	PRIOR FILING DATE: 1998-04-22
9	PRIOR APPLICATION NUMBER: 60/082804
10	PRIOR FILING DATE: 1998-04-22
11	PRIOR APPLICATION NUMBER: 60/082700
12	PRIOR FILING DATE: 1998-04-22
13	PRIOR APPLICATION NUMBER: 60/082797
14	PRIOR FILING DATE: 1998-04-22
15	PRIOR APPLICATION NUMBER: 60/082796
16	PRIOR FILING DATE: 1998-04-23
17	PRIOR APPLICATION NUMBER: 60/083336
18	PRIOR FILING DATE: 1998-04-27
19	PRIOR APPLICATION NUMBER: 60/083322
20	PRIOR FILING DATE: 1998-04-29
21	PRIOR APPLICATION NUMBER: 60/083392
22	PRIOR FILING DATE: 1998-04-29
23	PRIOR APPLICATION NUMBER: 60/083495
24	PRIOR FILING DATE: 1998-04-29
25	PRIOR APPLICATION NUMBER: 60/083496
26	PRIOR FILING DATE: 1998-04-29
27	PRIOR APPLICATION NUMBER: 60/083499
28	PRIOR FILING DATE: 1998-04-29
29	PRIOR APPLICATION NUMBER: 60/083545
30	PRIOR FILING DATE: 1998-04-29
31	PRIOR APPLICATION NUMBER: 60/083554
32	PRIOR FILING DATE: 1998-04-29
33	PRIOR APPLICATION NUMBER: 60/083558
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35	PRIOR APPLICATION NUMBER: 60/083559
36	PRIOR FILING DATE: 1998-04-29
37	PRIOR APPLICATION NUMBER: 60/083500
38	PRIOR FILING DATE: 1998-04-29
39	PRIOR APPLICATION NUMBER: 60/083742
40	PRIOR FILING DATE: 1998-04-30
41	PRIOR APPLICATION NUMBER: 60/084366
42	PRIOR FILING DATE: 1998-05-05
43	PRIOR APPLICATION NUMBER: 60/084414
44	PRIOR FILING DATE: 1998-05-06
45	PRIOR APPLICATION NUMBER: 60/084441
46	PRIOR FILING DATE: 1998-05-06
47	PRIOR APPLICATION NUMBER: 60/084637
48	PRIOR FILING DATE: 1998-05-07
49	PRIOR APPLICATION NUMBER: 60/084639
50	PRIOR FILING DATE: 1998-05-07
51	PRIOR APPLICATION NUMBER: 60/084640
52	PRIOR FILING DATE: 1998-05-07
53	PRIOR APPLICATION NUMBER: 60/084598
54	PRIOR FILING DATE: 1998-05-07
55	PRIOR APPLICATION NUMBER: 60/084600
56	PRIOR FILING DATE: 1998-05-07
57	PRIOR APPLICATION NUMBER: 60/084627
58	PRIOR FILING DATE: 1998-05-07
59	PRIOR APPLICATION NUMBER: 60/084643
60	PRIOR FILING DATE: 1998-05-07
61	PRIOR APPLICATION NUMBER: 60/085339
62	PRIOR FILING DATE: 1998-05-13
63	PRIOR APPLICATION NUMBER: 60/085338
64	PRIOR FILING DATE: 1998-05-13
65	PRIOR APPLICATION NUMBER: 60/085322
66	PRIOR FILING DATE: 1998-05-13
67	PRIOR APPLICATION NUMBER: 60/085582
68	PRIOR FILING DATE: 1998-05-15
69	PRIOR APPLICATION NUMBER: 60/085700
70	PRIOR FILING DATE: 1998-05-15
71	PRIOR APPLICATION NUMBER: 60/085689
72	PRIOR FILING DATE: 1998-05-15
73	PRIOR APPLICATION NUMBER: 60/085579

;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697
;; PRIOR FILING DATE: 1998-05-15

Query Match 100.0%; Score 1032; DB 36; Length 1679;
Best Local Similarity 100.0%; Pred. No. 9,5e+288;
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 atgaagaacacacagcaaaatgcacattctatctctctggaactcttcaggggctg 60
DB 134 atgaagaacacacagcaaaatgcacattctatctctctggaactcttcaggggctg 193
QY 61 gctgctctgctctctctcccaaggagtgcccgctgcagcgagatgcacctccccaa 120
DB 194 gctgctctgctctctcccaaggagtgcccgctgcagcgagatgcacctccccaa 253
QY 121 gctaaggaacagtgacggtccgaggggagcgccacctcaagtgacattgac 180
DB 254 gctaaggaacagtgacggtccgaggggagcgccacctcaagtgacattgac 313
QY 181 aaccgggtaccacgggtgctgctgctaaacccgacacacatctctatgctgggaatgac 240
DB 314 aaccgggtaccacgggtgctgctgctaaacccgacacacatctctatgctgggaatgac 373
QY 241 aagtggtgctggtgactcctgcgtgctctctgagcaacaccccaagcgatcacatc 300
DB 374 aagtggtgctggtgactcctgcgtgctctctgagcaacaccccaagcgatcacatc 433
QY 301 gagatcccaaacggtgagtgatgtagagagggccctacacctctcggtgcagagacagc 360
DB 434 gagatcccaaacggtgagtgatgtagagagggccctacacctctcggtgcagagacagc 493
QY 361 aaccacccaaagacacttaggtgtccactatgtgcaagtaatctcccaaatgtgagag 420
DB 494 aaccacccaaagacacttaggtgtccactatgtgcaagtaatctcccaaatgtgagag 553
QY 421 attctcagaatactccatcaatgaagggaaacatattagcctcactctgatagaact 480
DB 554 attctcagaatactccatcaatgaagggaaacatattagcctcactctgatagaact 613
QY 461 ggtagaccagagcctaaggttactctgagagacatctcccaagcggttgctgtg 540
DB 614 ggtagaccagagcctaaggttactctgagagacatctcccaagcggttgctgtg 673
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DB 674 agtgaagaacgaatacttggaatlcagggcatcacccggagagcagtcaggggactagag 733
QY 601 tgcagtgctcctaagtgagtggtgcgcgcgtgtgttcgagagtgtaagtgtaacccgtgaac 660
DB 734 tgcagtgctcctaagtgagtggtgcgcgcgtgtgttcgagagtgtaagtgtaacccgtgaac 793
QY 661 tatccaccatacatctcagaagccaaaggtacaggtgtcccgctgggacaaaggagaca 720
DB 794 tatccaccatacatctcagaagccaaaggtacaggtgtcccgctgggacaaaggagaca 853
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DB 854 ctgcagtgtagaagcctcagcagtcacctcagcagaatccagtgtagaagatgacaaa 913
QY 781 agactgattgaagaaagaaaggggtgaagtggaagaaagacactctctcgaaaactc 840
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QY 841 atctctcaatgctctcgaacatactatggaactatggaactatgctgctcgaacaaag 900
DB 974 atctctcaatgctctcgaacatactatggaactatggaactatgctgctcgaacaaag 1033

QY 901 ctgggcccacacatgcccagcatcatgctattgttccaaagcgctcagcgaggtgagc 960
DB 1034 ctgggcccacacatgcccagcatcatgctattgttccaaagcgctcagcgaggtgagc 1093
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DB 1094 aacggcagctgagagagagagctgctgctgctgctgctcctctctgcttgcacctg 1153
QY 1021 ctctcgaattt 1032
DB 1154 ctctcgaattt 1165

RESULT 14

US-09-978-299A-522

; Sequence 522, Application US/09978299A
; GENERAL INFORMATION:

;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Baker Kevin P.
;; APPLICANT: Botsstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan
;; APPLICANT: Ferrara, Napoleon
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillan, Kenneth J.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Kuo, Sophia S.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James.
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Shelton, David L.
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630PIC3
;; CURRENT APPLICATION NUMBER: US/09/978,299A
;; CURRENT FILING DATE: 2001-10-15
;; PRIOR APPLICATION NUMBER: 09/918585
;; PRIOR FILING DATE: 2001-07-30
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/064249
;; PRIOR FILING DATE: 1997-11-03
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066364
;; PRIOR FILING DATE: 1997-11-21
;; PRIOR APPLICATION NUMBER: 60/077450
;; PRIOR FILING DATE: 1998-03-10
;; PRIOR APPLICATION NUMBER: 60/077632
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077641
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077649
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077791
;; PRIOR FILING DATE: 1998-03-12
;; PRIOR APPLICATION NUMBER: 60/078004
;; PRIOR FILING DATE: 1998-03-13
;; PRIOR APPLICATION NUMBER: 60/078886

Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 atgaaaacatccagccaaaatgcacaattatctcttgggaattcctcagggctg 60
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Db 134 atgaaaacatccagccaaaatgcacaattatctcttgggaattcctcagggctg 193
QY 61 gctgcctctgtctcttccaaagagtgccctgcagaggaagatgcacctcccaaa 120
    |||||||
Db 194 gctgcctctgtctcttccaaagagtgccctgcagaggaagatgcacctcccaaa 253
QY 121 gctatgacaacgttgcagctgcagagggagagcgccacctcaagtgcaatttgc 180
    |||||||
Db 254 gctatgacaacgttgcagctgcagagggagagcgccacctcaagtgcaatttgc 313
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    |||||||
Db 314 aaccgggtaccccggtggtcgtgctaaccgagacacatctctatgcttggatgac 373
QY 241 aagtgtgcttgatccctcggtggtctcttgcagcaacacccaaagcagtaacgac 300
    |||||||
Db 374 aagtgtgcttgatccctcggtggtctcttgcagcaacacccaaagcagtaacgac 433
QY 301 gagatccagaacgtgagtgtatgacgagggcccttaacactgctcggtgcagacagac 360
    |||||||
Db 434 gagatccagaacgtgagtgtatgacgagggcccttaacactgctcggtgcagacagac 493
QY 361 aaccacccaaaagcctctaggggtccactcattgtgcagatctcccaaaattgtgag 420
    |||||||
Db 494 aaccacccaaaagcctctaggggtccactcattgtgcagatctcccaaaattgtgag 553
QY 421 attcttcagatatctccatgaagggagacatatagccatctgcataagcact 480
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Db 554 attcttcagatatctccatgaagggagacatatagccatctgcataagcact 613
QY 481 ggtgaacagagcctacgggttacttgagacacatctctccaaagcggttggcttgt 540
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Db 614 ggtgaacagagcctacgggttacttgagacacatctctccaaagcggttggcttgt 673
QY 541 agtgaagaacgaatacttgaaatgaagggctcccgaggagagtcagggagtaacgac 600
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Db 674 agtgaagaacgaatacttgaaatgaagggctcccgaggagagtcagggagtaacgac 733
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Db 794 tatccacatcatcttcaagaagccaaagggtacaggtgtcccgctgggacaaaagggtgac 853
QY 721 ctgcagtgtagagcctcagagtcctccctcagaggaattccagtggtacaaagatgacaa 780
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Db 974 atcttctcaatgtctcgtgaactgactatgggaactacattgctggtggtccccaag 1033
QY 901 ctggggcacaacaaatgcacacatcatgctattgttccagcgccgtaacgaggtgagc 960
    |||||||
Db 1034 ctggggcacaacaaatgcacacatcatgctattgttccagcgccgtaacgaggtgagc 1093
QY 961 aacggcagctcgaagagggcagagctgctgctgctgctcctcttgcctgcacctg 1020
    |||||||
Db 1094 aacggcagctcgaagagggcagagctgctgctgctgctcctcttgcctgcacctg 1153
QY 1021 ctctcacaattt 1032
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Db 1154 ctctcacaattt 1165

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RESULT 15
US-09-978-585-522

; Sequence 522, Application US/09978585

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Pong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerlitsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J

; APPLICANT: Kijaviri, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2630P1C15

; CURRENT FILING DATE: 2001-10-16

; NUMBER OF SEQ ID NOS: 624

; Prior Application removed - See File Wrapper or Palm

; SEQ ID NO 522

; LENGTH: 1679

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-978-585-522

Query Match 100.0%; Score 1032; DB 36; Length 1679;

Best Local Similarity 100.0%; Pred. No. 9, 5e-288;

Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 atgaaaacatccagccaaaatgcacaattatctcttgggaattcctcagggctg 60
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Db 194 gctgcctctgtctcttccaaagagtgccctgcagaggaagatgcacctcccaaa 253
QY 121 gctatgacaacgttgcagctgcagagggagagcgccacctcaagtgcaatttgc 180
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Db 254 gctatgacaacgttgcagctgcagagggagagcgccacctcaagtgcaatttgc 313
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    |||||||
Db 314 aaccgggtaccccggtggtcgtgctaaccgagacacatctctatgcttggatgac 373
QY 241 aagtgtgcttgatccctcggtggtctcttgcagcaacacccaaagcagtaacgac 300
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Db 374 aagtgtgcttgatccctcggtggtctcttgcagcaacacccaaagcagtaacgac 433
QY 301 gagatccagaacgtgagtgtatgacgagggcccttaacactgctcggtgcagacagac 360
    |||||||

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Db 434 gagatccagaacggtggtatgtatgacgagggcccttacacctgtcgtgcagacagac 493
QY 361 aaccaccacaagaaccttaagggtccacccctcatgtgcagaatctcccaaatgtgagag 420
Db 494 aaccaccacaagaaccttaagggtccacccctcatgtgcagaatctcccaaatgtgagag 553
QY 421 attcttcagatattctcatatgaagggaacaattatgaagccctcagctgatagaact 480
Db 554 attcttcagatattctcatatgaagggaacaattatgaagccctcagctgatagaact 613
QY 481 ggtagaccagagcctcagcttacttggagacacatctctcccaagcgttggcttgtg 540
Db 614 ggtagaccagagcctcagcttacttggagacacatctctcccaagcgttggcttgtg 673
QY 541 agtgaagacgaatacttggaaattcaagggcatacccggtgagcagtcaggggactagag 600
Db 674 agtgaagacgaatacttggaaattcaagggcatacccggtgagcagtcaggggactagag 733
QY 601 tgcagtgccctccaatgagctgtgcgcgcgcgtgtgtacgagaggtaaagtcacccgtgaac 660
Db 734 tgcagtgccctccaatgagctgtgcgcgcgcgtgtgtacgagaggtaaagtcacccgtgaac 793
QY 661 tatccaccatacatcttcagaagccaaggtacaggtgtcccggtggagcaaaagggtgaca 720
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QY 841 atcttctcaatgtctctgaacatgactatggaactacacttgcgttggtcctcacaag 900
Db 974 atcttctcaatgtctctgaacatgactatggaactacacttgcgttggtcctcacaag 1033
QY 901 ctgggcacacacaatgacagcatcatgtctattgttccagggccgttcagcgaggtgagc 960
Db 1034 ctgggcacacacaatgacagcatcatgtctattgttccagggccgttcagcgaggtgagc 1093
QY 961 aacggcaagtcgaggaaggagcgtgcgtctgcctcttcgtcttggtcttgacactg 1020
Db 1094 aacggcaagtcgaggaaggagcgtgcgtctgcctcttcgtcttggtcttgacactg 1153
QY 1021 ctctcacaattt 1032
Db 1154 ctctcacaattt 1165

Search completed: July 12, 2002, 00:25:10
Job time: 13628 sec

GenCore version 4.5
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OK nucleic - nucleic search, using sw model

Run on: July 11, 2002, 23:01:01 ; Search time 435.78 Seconds
(without alignments)
6670.192 Million cell updates/sec

Title: US-09-700-397-2

Perfect score: 1693
Sequence: 1 gtccctcagcaaacacgtg.....aaaaaaaaaaaaaaaaa 1693

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1736436 segs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: N_Geneseq_032802.*
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21: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
22: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*
23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*
24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	1693	100.0	1693	21 AAZ47893 Human protein enco
2	1661.4	98.1	1679	20 AAZ34324 Human PRO337 nucle
3	1661.4	98.1	1679	21 AAC78590 Human PRO337 nucle
4	1661.4	98.1	1679	22 AAS21431 Human cDNA sequenc
5	1661.4	98.1	1679	22 AAC87037 Nucleotide sequenc
6	1625.8	96.0	2012	21 AAA88791 Human SECX cDNA C1
7	1588.8	93.8	1603	21 AAA88790 Human SECX cDNA C1
8	1455.4	86.0	1678	22 AA157859 Human polynucleoti
9	1297.4	76.6	1690	22 AA159655 Human polynucleoti

10	1032	61.0	1032	21 AAZ47892 Human protein enco
11	939	55.5	939	21 AAZ47894 Human protein enco
12	787.8	46.5	832	21 AAA44536 Human secreted exp
13	540.8	31.9	3069	14 AA051015 Rat oploid recepto
14	523	30.9	2179	14 AA051017 Rat oploid recepto
15	523	30.9	2337	14 AA051016 Rat oploid recepto
16	503	29.7	503	20 AA343325 Human EST DNA42301
17	503	29.7	503	21 AAC78591 Human polynucleoti
18	475.2	28.1	537	22 AAC91321 Spinal cord tissue
19	450.2	25.4	452	22 AAF93346 DNA encoding novel
20	396	23.4	484	23 AA578035 Rat LAMP coding se
21	343	20.3	1238	17 AA420808 Human LAMP residu
22	340.6	20.1	924	17 AA420804 Human LAMP residu
23	340.6	20.1	977	17 AA420799 Rat LAMP coding se
24	340.6	20.1	1014	17 AA142081 Human LAMP residu
25	338.6	20.0	861	17 AA142086 Human mature LAMP
26	338.6	20.0	912	17 AA142082 Rat LAMP residues
27	337.4	19.9	945	17 AA142085 Rat mature LAMP co
28	337	19.9	930	17 AA142083 Rat LAMP residues
29	333.8	19.7	861	17 AA142087 Rat LAMP clone 6c
30	331.8	19.6	1307	17 AA142116 Human colon cancer
31	325.2	19.2	1153	22 AAH34425 Human secreted pro
32	316.2	18.7	333	21 AAC19214 Human LAMP residu
33	303.6	17.9	756	17 AA142094 Rat LAMP residues
34	298.2	17.6	756	17 AA142095 DNA encoding novel
35	296.8	17.5	443	23 AAS78034 Nucleotide sequenc
36	272.6	16.1	4834	22 AAC87055 Human PRO4993 nucl
37	269.4	15.9	2840	21 AAC87856 Human single nucle
38	255	15.1	255	20 AAH87585 Human biallelic po
39	250.6	14.8	251	19 AA106944 Human cDNA SBO ID
40	240.8	14.2	2813	22 ABA06475 Human immunoglobul
41	220.6	13.0	4656	22 AAS28811 DNA encoding novel
42	217.8	12.9	2883	23 AAS78003 Human secreted pro
43	193.6	11.4	352	21 AAC02777 DNA encoding novel
44	170.2	10.1	767	23 AAS78037 Human secreted pro
45	163.2	9.6	585	22 AAF93597 Umbilical vein end

ALIGNMENTS

RESULT 1
ID AAZ47893 standard; cDNA; 1693 BP.
AC AAZ47893;
XX
DT 10-MAR-2000 (first entry)
XX
DE Human protein encoding cDNA SEQ ID NO:3.
XX
XX Human; haematopoietic cell regulation; tissue generation; reparation;
KW activating; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
KW receptor; ligand; autoimmune; infection-related immunodeficiency;
KW inflammatory disorder; neurological disease; ss.
XX
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FT CDS 214..1164
FT FT /*tag= a
XX
XX PN W0958668-A1.
XX
XX PD 18-NOV-1999.
XX
XX PF 13-MAY-1999; 99WO-JP02485.
XX
XX PR 14-MAY-1998; 96JP-0131815.
XX (ONOF) ONO PHARM CO LTD.
PA
XX Fukushima D, Shibayama S, Tada H;

XX WPI: 2000-062298/05.
DR P-PSDB: AAY57601.

XX New polypeptides of human origin having cell regulatory, tissue
PT generation, coagulant and other activities

PS Claim 5; Page 42-45; 84pp; Japanese.

XX The present sequence encodes a specifically claimed novel human protein.
CC The novel human protein can be used in therapeutic drugs for the
CC prevention and treatment of a broad range of disorders including
CC autoimmune and infection-related immunodeficiency, inflammatory
CC disorders, and neurological diseases. The novel protein is expected of
CC having haematopoietic cell regulatory activity, tissue generation/
CC regeneration activity, activin/inhibin activity, taxis/chemotaxis activity,
CC blood coagulation and thrombus activity, and receptor/ligand activity.

XX Sequence 1693 BP; 518 A; 432 C; 416 G; 327 T; 0 other;

Query Match 100.0%; Score 1693; DB 21; Length 1693;

Best Local Similarity 100.0%; Pred. NO. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 1693; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 gtcttcagcaaaacagtgatgaatgaatctctcttcagcaagcttgagagcaacaatct 60

QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
DB 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120

QY 121 aaaaaaatatgaataacatccagcccaaaaatgccaattctatctcttggaatttc 180
DB 121 aaaaaaatatgaataacatccagcccaaaaatgccaattctatctcttggaatttc 180

QY 121 aaaaaaatatgaataacatccagcccaaaaatgccaattctatctcttggaatttc 180
DB 121 aaaaaaatatgaataacatccagcccaaaaatgccaattctatctcttggaatttc 180

QY 181 acgggctgctgctctgtctcttcaccaagagtcgacctgacgacgagatgacacc 240
DB 181 acgggctgctgctctgtctcttcaccaagagtcgacctgacgacgagatgacacc 240

QY 181 acgggctgctgctctgtctcttcaccaagagtcgacctgacgacgagatgacacc 240
DB 181 acgggctgctgctctgtctcttcaccaagagtcgacctgacgacgagatgacacc 240

QY 241 ttccccaagctatggaacaacgtaacggtccgaggggagagagccaccacagctgc 300
DB 241 ttccccaagctatggaacaacgtaacggtccgaggggagagagccaccacagctgc 300

QY 241 ttccccaagctatggaacaacgtaacggtccgaggggagagagccaccacagctgc 300
DB 241 ttccccaagctatggaacaacgtaacggtccgaggggagagagccaccacagctgc 300

QY 301 actattggaacacgggtacacgggtgctgctgtaaacacggagacacatctctatgct 360
DB 301 actattggaacacgggtacacgggtgctgctgtaaacacggagacacatctctatgct 360

QY 301 actattggaacacgggtacacgggtgctgctgtaaacacggagacacatctctatgct 360
DB 301 actattggaacacgggtacacgggtgctgctgtaaacacggagacacatctctatgct 360

QY 361 ggaatgaacaagtgtgctgtgatcctcgcgtgtgtctctcttgagcaaacacccaacgag 420
DB 361 ggaatgaacaagtgtgctgtgatcctcgcgtgtgtctctcttgagcaaacacccaacgag 420

QY 361 ggaatgaacaagtgtgctgtgatcctcgcgtgtgtctctcttgagcaaacacccaacgag 420
DB 361 ggaatgaacaagtgtgctgtgatcctcgcgtgtgtctctcttgagcaaacacccaacgag 420

QY 421 tacagcatcgagatccagagacgtgtgatagaagagggcccttaacctgtctgtgtg 480
DB 421 tacagcatcgagatccagagacgtgtgatagaagagggcccttaacctgtctgtgtg 480

QY 421 tacagcatcgagatccagagacgtgtgatagaagagggcccttaacctgtctgtgtg 480
DB 421 tacagcatcgagatccagagacgtgtgatagaagagggcccttaacctgtctgtgtg 480

QY 481 cagagcagac 540
DB 481 cagagcagac 540

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DB 541 atttagagatttcttcagatatactcattatgaagaggaacaatatagcctcaactgc 600

QY 601 atagcaactgtgtagaccagagcctacaggttactcttgagacacatctcccaagcggtt 660
DB 601 atagcaactgtgtagaccagagcctacaggttactcttgagacacatctcccaagcggtt 660

QY 601 atagcaactgtgtagaccagagcctacaggttactcttgagacacatctcccaagcggtt 660
DB 601 atagcaactgtgtagaccagagcctacaggttactcttgagacacatctcccaagcggtt 660

QY 661 ggcttctgtgtaagcaagaactacttgaaatccagagcatcaccggagacagtcagg 720
DB 661 ggcttctgtgtaagcaagaactacttgaaatccagagcatcaccggagacagtcagg 720

QY 721 gactacgagtcagtgctcccaatgacgtggccgcgccttgatgagagtaaggtc 780
DB 721 gactacgagtcagtgctcccaatgacgtggccgcgccttgatgagagtaaggtc 780

QY 781 accgtgaactaccacatcatttcaagaagcgaaggtgtacaggtgtccctgtgagaca 840
DB 781 accgtgaactaccacatcatttcaagaagcgaaggtgtacaggtgtccctgtgagaca 840

QY 841 aagggagacatcgagctgtgaagcctcagcagctccctcagacgaattccagctgtacaag 900
DB 841 aagggagacatcgagctgtgaagcctcagcagctccctcagacgaattccagctgtacaag 900

QY 901 gatgacaaagacatgatttgaagaagaaggggtgaaggtggaagaacacacacttcc 960
DB 901 gatgacaaagacatgatttgaagaagaaggggtgaaggtggaagaacacacacttcc 960

QY 901 gatgacaaagacatgatttgaagaagaaggggtgaaggtggaagaacacacacttcc 960
DB 901 gatgacaaagacatgatttgaagaagaaggggtgaaggtggaagaacacacacttcc 960

QY 961 tcaaaactatcttcttaattgtctctggaacatgacttgggaactacacttgcgtggcc 1020
DB 961 tcaaaactatcttcttaattgtctctggaacatgacttgggaactacacttgcgtggcc 1020

QY 961 tcaaaactatcttcttaattgtctctggaacatgacttgggaactacacttgcgtggcc 1020
DB 961 tcaaaactatcttcttaattgtctctggaacatgacttgggaactacacttgcgtggcc 1020

QY 1021 tccaaacagcttggccac 1080
DB 1021 tccaaacagcttggccac 1080

QY 1081 gaggtgagcaacgagcagctgagggagggcaggtgctgtgctgctgctgtctgtc 1140
DB 1081 gaggtgagcaacgagcagctgagggagggcaggtgctgtgctgctgtgctgtc 1140

QY 1141 ttgacaccttcttcaaatcttgaatgtgagtgagtgacacttccacacgggaaagcgccg 1200
DB 1141 ttgacaccttcttcaaatcttgaatgtgagtgagtgacacttccacacgggaaagcgccg 1200

QY 1201 ccaac 1260
DB 1201 ccaac 1260

QY 1261 caaatgaattgaagaagaac 1320
DB 1261 caaatgaattgaagaagaac 1320

QY 1261 caaatgaattgaagaagaac 1320
DB 1261 caaatgaattgaagaagaac 1320

QY 1321 aatccttggggggaagaagaattttaaagaagaattgaagaatttccttgagatatta 1380
DB 1321 aatccttggggggaagaagaattttaaagaagaattgaagaatttccttgagatatta 1380

QY 1381 ggtacaatgagtttcttcttcccaacggggaagacacacacacacacacacacacacacac 1440
DB 1381 ggtacaatgagtttcttcttcccaacggggaagacacacacacacacacacacacacacac 1440

QY 1441 ctgcaagctgcatcgtgcaaccttctgtgtgcaaggttggaaggtcagcctctctg 1500
DB 1441 ctgcaagctgcatcgtgcaaccttctgtgtgcaaggttggaaggtcagcctctctg 1500

QY 1501 cccacagagtgcccccacagctggaacatctgagctgagccatcccaaatlcaatcagttcc 1560
DB 1501 cccacagagtgcccccacagctggaacatctgagctgagccatcccaaatlcaatcagttcc 1560

QY 1561 atagagacgagacgaatgagaccttcggcccaagcgttggcgcgcgcgcgcgcgcgcgcgcgc 1620
DB 1561 atagagacgagacgaatgagaccttcggcccaagcgttggcgcgcgcgcgcgcgcgcgcgcgc 1620

QY 1621 actgtgccaccacggcgtgtgtgtggaacgttgaatgaagaagacaaagacaaagacaaagacaa 1680
DB 1621 actgtgccaccacggcgtgtgtgtggaacgttgaatgaagaagacaaagacaaagacaaagacaa 1680

QY 1681 aaaaaa 1693
DB 1681 aaaaaa 1693

RESULT 2
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ID AAZ34324 standard; cDNA; 1679 BP.
XX

QY	1201	ccaccacccaaccaaccaacgcgcatctgtcaaacccggaaagacaacatcgaataata	1260		
Db	1205	ccaccacccaaccaaccaacgcgcatctgtgtgcaaacccggaaagacaacatcgaataata	1264		
QY	1261	caaatgtaattagaagaacaacgcgctcttgagcaagaatttgaaggaggaggacaag	1320		
Db	1265	caaatgtaattagaagaacaacgcgctctcttggacagaatttgaaggaggaggacaag	1324		
QY	1321	aataactttgggggaaaaaaattttaaaaagaatatgnaaatttgaccttgagatat	1380		
Db	1325	aataactttgggggaaaaaaattttaaaaagaatatgnaaatttgaccttgagatat	1384		
QY	1381	ggtaacaatgagatttcttccttcccagaagggaagaacacagcacaccggcttggacca	1444		
Db	1385	ggtaacaatgagatttcttccttcccagaagggaagaacacagcacaccggcttggacca	1444		
QY	1441	ctgcgaagctgcacatcgcaaaccttttgtgcagtttgggcgaagggtctcagctctctg	1500		
Db	1445	ctgcgaagctgcacatcgcaaaccttttgtgcagtttgggcgaagggtctcagctctctg	1504		
QY	1501	ccccagaagtgccccccacgltgnaacattctggagcttgccatcccaattcaalcagtc	1560		
Db	1505	ccccagaagtgccccccacgltgnaacattctggagcttgccatcccaattcaalcagtc	1564		
QY	1561	atagaagcagaacgaatgtagaccttcgccgaagcgttgcgctcgccggcactttggtag	1624		
Db	1565	atagaagcagaacgaatgtagaccttcgccgaagcgttgcgctcgccggcactttggtag	1624		
QY	1621	actgtgccaacacagcggtgtgtgttggaaagtgaataaaagcaaaaaaaaa	1675		
Db	1625	actgtgccaacacagcggtgtgtgttggaaagtgaataaaagcaaaaaaaaa	1679		
RESULT 3					
ID	AAC78590				
XX	AAC78590 standard; cDNA, 1679 BP.				
XX	AAC78590;				
DF	08-FEB-2001 (first entry)				
XX	Human PRO337 nucleotide sequence SPO ID NO:522.				
XX	Human; secreted protein; transmembrane protein; PRO; EST; cytosolic;				
KM	expressed sequence tag; detection; cancer; ss.				
OS	Homo sapiens.				
PN	W0200053756-A2.				
PD	14-SEP-2000.				
PF	18-FEB-2000; 2000WO-US04341.				
PR	08-MAR-1999;	99WO-US050528.			
PR	12-MAR-1999;	99US-01233957.			
PR	29-MAR-1999;	99US-0126773.			
PR	21-APR-1999;	99US-0130232.			
PR	28-APR-1999;	99US-0131445.			
PR	14-MAY-1999;	99US-0134287.			
PR	23-JUN-1999;	99US-0141037.			
PR	26-JUL-1999;	99US-0145698.			
PR	29-OCT-1999;	99US-0162506.			
PR	30-NOV-1999;	99WO-US28313.			
PR	02-DEC-1999;	99WO-US28551.			
PR	02-DEC-1999;	99WO-US28565.			
PR	16-DEC-1999;	99WO-US30095.			
PR	30-DEC-1999;	99WO-US31243.			
PR	30-DEC-1999;	99WO-US31274.			
PR	05-JAN-2000;	2000WO-US00219.			
PR	06-JAN-2000;	2000WO-US00277.			
PR	06-JAN-2000;	2000WO-US00376.			

Db 1625 actgtgtccaccacgagcggtgtgtgtgaacgtgaataaagaagcaaaaaa 1679

RESULT 4
 AAS21431
 ID AAS21431 standard; cDNA; 1679 BP.
 AC AAS21431;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Human cDNA sequence encoding for PRO337 polypeptide.
 XX
 KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy; ss.
 XX
 OS Homo sapiens.
 XX
 FN W020014046-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000MO-US32678.
 XX
 PR 01-DEC-1999; 99MO-US28301.
 PR 01-DEC-1999; 99MO-US28364.
 PR 02-DEC-1999; 99MO-US28551.
 PR 02-DEC-1999; 99MO-US28564.
 PR 02-DEC-1999; 99MO-US28565.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99MO-US30095.
 PR 20-DEC-1999; 99MO-US30911.
 PR 20-DEC-1999; 99MO-US30999.
 PR 30-DEC-1999; 99MO-US31243.
 PR 06-JAN-2000; 2000MO-US00277.
 PR 06-JAN-2000; 2000MO-US00376.
 PR 11-FEB-2000; 2000MO-US03565.
 PR 18-FEB-2000; 2000MO-US04341.
 PR 18-FEB-2000; 2000MO-US04342.
 PR 22-FEB-2000; 2000MO-US04414.
 PR 24-FEB-2000; 2000MO-US05004.
 PR 01-MAR-2000; 2000MO-US05601.
 PR 20-MAR-2000; 2000MO-US07337.
 PR 21-MAR-2000; 2000MO-US07532.
 PR 30-MAR-2000; 2000MO-US08439.
 PR 17-MAY-2000; 2000MO-US13705.
 PR 22-MAY-2000; 2000MO-US14042.
 PR 30-MAY-2000; 2000MO-US14941.
 PR 02-JUN-2000; 2000MO-US15264.
 PR 10-NOV-2000; 2000MO-US30873.
 XX
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski RJ, Gunney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z,
 XX
 DR WPI: 2001-408281/43.
 DR P-PSDB; AAU12359.
 XX
 XX
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical
 XX
 PS Claim 3; Fig 375; 813pp: English.
 XX
 XX AAS21244-AAS21518 encode for novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing

CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.
 CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Query Match 98.1%; Score 1661.4; DB 22; Length 1679;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 gtcttcagcaaaacagtgatgttaatctctcttgacaagcttgagagcaacaatct 60
 Db 6 gtcttcagcaaaacagtgatgttaatctctcttgacaagcttgagagcaacaatct 65
 QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
 Db 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
 QY 121 aaaaaaatcatgaaacacatccagcaaaatgcacaattctctcttggaattcttc 180
 Db 125 aaaaaaatcatgaaacacatccagcaaaatgcacaattctctcttggaattcttc 184
 QY 181 acggggtgctgctgtctgtctcttccaaagagtcgctgagcagagatgcacc 240
 Db 185 acggggtgctgctgtctgtctcttccaaagagtcgctgagcagagatgcacc 244
 QY 241 ttcccaaaagctatgacaacagtgacggtccgcaaggagagagcaccatcagtgc 300
 Db 245 ttcccaaaagctatgacaacagtgacggtccgcaaggagagagcaccatcagtgc 304
 QY 301 actatgacaacgggtcacccgggtgctgtcctaaccagcagacacatctctatgct 360
 Db 305 actatgacaacgggtcacccgggtgctgtcctaaccagcagacacatctctatgct 364
 QY 361 ggaatgacaagtgtgtcctgtatctctcgctggtgctctctatgacaacccaacgag 420
 Db 365 ggaatgacaagtgtgtcctgtatctctcgctggtgctctctatgacaacccaacgag 424
 QY 421 taacgcatcagatcagacaacgtgagtgtatgagagagggcccttaacgtctggtg 480
 Db 425 taacgcatcagatcagacaacgtgagtgtatgagagagggcccttaacgtctggtg 484
 QY 481 cagacaacacccaacccaacgaagccttagggctcaccctatgttgcaagtaatcccaaa 540
 Db 485 cagacaacacccaacccaacgaagccttagggctcaccctatgttgcaagtaatcccaaa 544
 QY 541 atgttagagatttcttcagatatctcattatgaagggagaacaattatagactactgc 600
 Db 545 atgttagagatttcttcagatatctcattatgaagggagaacaattatagactactgc 604
 QY 601 atagcaactgttagaccagaagccttagcttactctggagagaacatctctccaaagcgtt 660
 Db 605 atagcaactgttagaccagaagccttagcttactctggagagaacatctctccaaagcgtt 664
 QY 661 ggccttggatgaagaagcaataactctggaatctaggagcaaccgggagcagtcagg 720
 Db 665 ggccttggatgaagaagcaataactctggaatctaggagcaaccgggagcagtcagg 724

```

QY 721 gactacgagtcgagtcctccaatgacgtgcccgcgctggtacggagagtaaggtc 780
    |||||||
Db 725 gactacgagtcgagtcctccaatgacgtgcccgcgctggtacggagagtaaggtc 784
QY 781 accgtgaactatccacatatacttgaagagccaaaggtgaaggtgtccctcgaggaca 840
    |||||||
Db 785 accgtgaactatccacatatacttgaagagccaaaggtgaaggtgtccctcgaggaca 844
QY 841 aaggggacacgtgagtcgtgaagcctcagcctccctcagcgaattccagtgatacaag 900
    |||||||
Db 845 aaggggacacgtgagtcgtgaagcctcagcctccctcagcgaattccagtgatacaag 904
QY 901 gatgacaaaagacgtatgtgaaggaagaaaggggtgaaggtgaaagacagaccttccctc 960
    |||||||
Db 905 gatgacaaaagacgtatgtgaaggaagaaaggggtgaaggtgaaagacagaccttccctc 964
QY 961 tcaaaactatcttctccaatgtctctgaacatgactatggaactatacaacttgcgtgacc 1020
    |||||||
Db 965 tcaaaactatcttctccaatgtctctgaacatgactatggaactatacaacttgcgtgacc 1024
QY 1021 tccaagaagctgggcccacacaaatgcagacatattgttgcagggcgccgtcagc 1080
    |||||||
Db 1025 tccaagaagctgggcccacacaaatgcagacatattgttgcagggcgccgtcagc 1084
QY 1081 gaagtcgacgaagcgcgtcgaggaagggcagcgtgctgtgctgtctctctctgtgtc 1140
    |||||||
Db 1085 gaagtcgacgaagcgcgtcgaggaagggcagcgtgctgtgctgtctctctctgtgtc 1144
QY 1141 ttgcaactgtctccaatttttgatgtgagtcgcaacttccaccgggaaaggtcgccg 1200
    |||||||
Db 1145 ttgcaactgtctccaatttttgatgtgagtcgcaacttccaccgggaaaggtcgccg 1204
QY 1201 ccaccaccaccacacacaaagaatgagcaacacggcagcaacacatagatatata 1260
    |||||||
Db 1205 ccaccaccaccacacacaaagaatgagcaacacggcagcaacacatagatatata 1264
QY 1261 caaatgaatagaagaacacacagcctcatgtgagacagaaatttgaagggaaggaacaag 1320
    |||||||
Db 1265 caaatgaatagaagaacacacagcctcatgtgagacagaaatttgaagggaaggaacaag 1324
QY 1321 aataccttggggggaagaaatgtttaaaagaatgaattgccttcagatatatta 1380
    |||||||
Db 1325 aataccttggggggaagaaatgtttaaaagaatgaattgccttcagatatatta 1384
QY 1381 ggtacaatgagatgttcttctcccaacgggaagaacacacgcccggcttgagacca 1440
    |||||||
Db 1385 ggtacaatgagatgttcttctcccaacgggaagaacacacgcccggcttgagacca 1444
QY 1441 ctgcaagctgcatcgtgcaaccttctgtgcccagtggtgggcaagggctcagcctctctg 1500
    |||||||
Db 1445 ctgcaagctgcatcgtgcaaccttctgtgcccagtggtgggcaagggctcagcctctctg 1504
QY 1501 cccacagagtgcccccaagtcggaacatctctgagcctgagccatcccaatcaatcagtc 1560
    |||||||
Db 1505 cccacagagtgcccccaagtcggaacatctctgagcctgagccatcccaatcaatcagtc 1564
QY 1561 atagagacgaacgaatgagaccttcgggccaagcgtggcgctggggcaacttggtag 1620
    |||||||
Db 1565 atagagacgaacgaatgagaccttcgggccaagcgtggcgctggggcaacttggtag 1624
QY 1621 actgtgcccacacgagcgtgtgtgtgaaacgtgaaataaaagagcaaaaaa 1675
    |||||||
Db 1625 actgtgcccacacgagcgtgtgtgtgaaacgtgaaataaaagagcaaaaaa 1679

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RESULT 5

AAC87037

AAC87037 standard; cDNA: 1679 BP.

XX
AC AAC87037;
XX
DT 20-APR-2001 (first entry)
XX

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DE Nucleotide sequence of human polypeptide PR0337.
XX
XX Human; secreted protein; transmembrane protein; PR0196; PR0444; PR0183;
KM PR0185; PR0210; PR0215; PR0217; PR0242; PR0288; PR0365; PR01361; PR01308;
KM PR01183; PR01272; PR01419; PR04999; PR07170; PR0248; PR0353; PR01318;
KM PR01600; PR09940; PR0533; PR0301; PR0187; PR0337; PR01411; PR04356;
KM PR0246; PR0265; PR0941; PR010096; PR06003; PR06004; PR0350; PR02630;
KM PR06309; cell death; genetic disorder; transgenic animal; gene therapy;
XX ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 134..1168
XX FT /tag=a
XX FT 134..216
XX sig_peptide /tag=b
XX
XX W0200077037-A2.
XX
XX 21-DEC-2000.
XX
XX 22-MAY-2000; 2000MO-US14042.
XX
XX 15-JUN-1999; 99US-013695.
XX 20-JUL-1999; 99US-0145070.
XX 26-JUL-1999; 99US-0145698.
XX 17-AUG-1999; 99US-0149396.
XX 01-SEP-1999; 99MO-US20111.
XX 08-SEP-1999; 99MO-US20594.
XX 15-SEP-1999; 99MO-US21090.
XX 15-SEP-1999; 99MO-US21547.
XX 30-NOV-1999; 99MO-US28313.
XX 01-DEC-1999; 99MO-US28301.
XX 02-DEC-1999; 99MO-US28565.
XX 07-DEC-1999; 99US-0169495.
XX 05-JAN-2000; 2000MO-US00219.
XX 18-FEB-2000; 2000MO-US04341.
XX 18-FEB-2000; 2000MO-US04342.
XX 22-FEB-2000; 2000MO-US04414.
XX 01-MAR-2000; 2000MO-US05601.
XX 02-MAR-2000; 2000MO-US05841.
XX 20-MAR-2000; 2000MO-US07377.
XX 30-MAR-2000; 2000MO-US08439.
XX 15-MAY-2000; 2000MO-US13358.
XX 17-MAY-2000; 2000MO-US13705.
XX
XX (GENTECH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein DA, Desnovers L, Eaton DL,
XX Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
XX Godowski PJ, Gurney AL, Kijavlin IU, Mather JF, Napier MA, Pan J,
XX Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
XX Wood WI, Zhang Z;
XX
XX WPI; 2001-050091/06.
XX P-PSDB; AAB31204.
XX
XX Isolated nucleic acid molecule encoding a PRO polypeptide which is a
XX transmembrane polypeptide is useful for gene therapy and identification
XX of related polypeptides -
XX
XX Claim 2; Fig 51; 244pp; English.
XX
XX The present sequence encodes a human secreted and transmembrane
XX polypeptide. The specification describes human polypeptides, designated
XX PRO196, PRO444, PRO183, PRO210, PRO215, PRO217, PRO242, PRO288,
XX PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO7170,
XX PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187,
XX PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
XX PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
XX can be modulated with agents that bind to these polypeptides, resulting
XX in the death of the cells. The polynucleotides encoding these

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CC polypeptides are useful in the recombinant production of the
 CC polypeptides, as a hybridisation probe to screen libraries to isolate
 CC homologous sequences, or to map the gene. They may also be used for
 CC analysing genetic disorders, and to produce transgenic animals which are
 CC useful for the development and screening of therapeutically useful
 CC reagents. The polynucleotides can also be used in gene therapy e.g. to
 CC replace a defective gene.

XX Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Query Match 98.1%; Score 1661.4; DB 22; Length 1679;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 gtccttcgcaaaacagtgatgtaattccttcgcaaaagcttgagagcaacaatct 60
 Db 6 gtccttcgcaaaacagtgatgtaattccttcgcaaaagcttgagagcaacaatct 65
 QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
 Db 66 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 124
 QY 121 aaaaaaalcattgaagaacacccagcccaaaaatgcaaatctctcttgggaatcttc 180
 Db 125 aaaaaaalcattgaagaacacccagcccaaaaatgcaaatctctcttgggaatcttc 184
 QY 181 acggggtctgctgtctgtctctcttcgaagagtgcccgctgagcagagatgccc 240
 Db 185 acggggtctgctgtctgtctctcttcgaagagtgcccgctgagcagagatgccc 244
 QY 241 ttcccaaaagctatgcaaaagcagcagcagcagcagcagcagcagcagcagcagc 300
 Db 245 ttcccaaaagctatgcaaaagcagcagcagcagcagcagcagcagcagcagcagc 304
 QY 301 actattgacaacccggtaccccggtggtggtggtggtggtggtggtggtggtggt 360
 Db 305 actattgacaacccggtggtggtggtggtggtggtggtggtggtggtggtggtggt 364
 QY 361 ggggaatgacaagtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 420
 Db 365 ggggaatgacaagtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 424
 QY 421 taaggaatgacaagtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 480
 Db 425 taaggaatgacaagtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 484
 QY 481 cagacagacaaccccaaaagccttaggtggtggtggtggtggtggtggtggtggtggt 540
 Db 485 cagacagacaaccccaaaagccttaggtggtggtggtggtggtggtggtggtggtggt 544
 QY 541 attgtagagattcttcagatatactcattaatgaaggaagaagaagaagaagaagaaga 600
 Db 545 attgtagagattcttcagatatactcattaatgaaggaagaagaagaagaagaagaaga 604
 QY 601 atagcaactgtgtagacagagcctaagcttacttggagacacatctcccaagcggtt 660
 Db 605 atagcaactgtgtagacagagcctaagcttacttggagacacatctcccaagcggtt 664
 QY 661 ggcttctgagtgagagcgaataacttgaataatcaggggcaaccccggtgagcagtgag 720
 Db 665 ggcttctgagtgagagcgaataacttgaataatcaggggcaaccccggtgagcagtgag 724
 QY 721 gactaagatgcaagtgctcctaagtgagtggtggtggtggtggtggtggtggtggtggt 780
 Db 725 gactaagatgcaagtgctcctaagtgagtggtggtggtggtggtggtggtggtggtggt 784
 QY 761 accgtgaactatccaccatacttccagaaagcgaaggtacacgggtggtggtggtggtggt 840
 Db 765 accgtgaactatccaccatacttccagaaagcgaaggtacacgggtggtggtggtggtggt 844
 QY 841 aagggaactgtagtgtagcctcagcagctccctcagcaggaattccagtggtaaag 900

Db 845 aagggaactgtagtgtagcctcagcagctccctcagcaggaattccagtggtaaag 904
 QY 901 gattgcaaaagactgattgaagaagaagaagggtggaagtggaagaagaagacattcttc 960
 Db 905 gattgcaaaagactgattgaagaagaagaagggtggaagtggaagaagaagacattcttc 964
 QY 961 tcaaaactatcttctcaatgtctctcgaactaactaactaactaactaactaactaacta 1020
 Db 965 tcaaaactatcttctcaatgtctctcgaactaactaactaactaactaactaactaacta 1024
 QY 1021 tcaaaactatcttctcaatgtctctcgaactaactaactaactaactaactaactaacta 1080
 Db 1025 tcaaaactatcttctcaatgtctctcgaactaactaactaactaactaactaactaacta 1084
 QY 1081 gagggtgagcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1140
 Db 1085 gagggtgagcaagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcag 1144
 QY 1141 ttgcaactgtcttcaaatgtgtagtgtagtgtagtgtagtgtagtgtagtgtagtgtag 1200
 Db 1145 ttgcaactgtcttcaaatgtgtagtgtagtgtagtgtagtgtagtgtagtgtagtgtag 1204
 QY 1201 ccac 1260
 Db 1205 ccac 1264
 QY 1261 caaatgaaattgaagaagaacacagcctcctcctcctcctcctcctcctcctcctcctc 1320
 Db 1265 caaatgaaattgaagaagaacacagcctcctcctcctcctcctcctcctcctcctcctc 1324
 QY 1321 aatacttggggggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1380
 Db 1325 aatacttggggggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1384
 QY 1381 ggtacaaatggaatttcttcttcccaaacggtggaagaagaagaagaagaagaagaaga 1440
 Db 1385 ggtacaaatggaatttcttcttcccaaacggtggaagaagaagaagaagaagaagaaga 1444
 QY 1441 ctgcaagctgcatctgcaacatcttcttcttcttcttcttcttcttcttcttcttct 1500
 Db 1445 ctgcaagctgcatctgcaacatcttcttcttcttcttcttcttcttcttcttcttct 1504
 QY 1501 cccaagatgcccccaagtggaacatcttcttcttcttcttcttcttcttcttcttcttct 1560
 Db 1505 cccaagatgcccccaagtggaacatcttcttcttcttcttcttcttcttcttcttcttct 1564
 QY 1561 atagaagcgaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1620
 Db 1565 atagaagcgaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 1624
 QY 1621 actgtgcacacagcgt 1675
 Db 1625 actgtgcacacagcgt 1679

RESULT 6
 ID AAA88791 standard; cDNA; 2012 BP.

AC AAA88791;
 DT 19-FEB-2001 (first entry)
 XX
 DE Human SECX cDNA Clone 11753149.0.37.
 XX
 KW SECX; human; diagnosis; gene therapy; cell adhesion; ss.
 OS Homo sapiens.
 XX
 FT Key Location/Qualifiers
 FT CDS 501..1535
 FT sig_peptide 501..599

QY 810 agccagaggtacaggtgtcccccggggaacaaaggggaacacgtgcaggtgtgaagcccaagc 869
 Db 822 agccaaggtacaggtgtcccccggggaacaaaggggaacacgtgcaggtgtgaagcccaagc 881
 QY 870 agtccctcagcagaattccaggtgtacagagtgacaaagactgataagaagaaga 929
 Db 882 agtccctcagcagaattccaggtgtacagagtgacaaagactgataagaagaaga 941
 QY 930 aggggtgaagtgaaacacagacattctctcaaaactctctcaattctctca 989
 Db 942 aggggtgaagtgaaacacagacattctctcaaaactctctcaattctctca 1001
 QY 990 acatgactatgggaactacacttgcgtgcctcccaagctggggaacacagatgcag 1049
 Db 1002 acatgactatgggaactacacttgcgtgcctcccaagctggggaacacagatgcag 1061
 QY 1050 calcatgactatgtgtccagagcgcgcagcagagtgaggaacacagcagcgcgcag 1109
 Db 1062 calcatgactatgtgtccagagcgcgcagcagagtgaggaacacagcagcgcgcag 1121
 QY 1110 agagctgctgtgctgtgctgtcctctgtgctgtcagcctgtcctcaatttgcagtgta 1169
 Db 1122 agagctgctgtgctgtgctgtcctctgtgctgtcagcctgtcctcaatttgcagtgta 1181
 QY 1170 gtgcacattcccccagccggggaagctgtccgcacacacacacacacagcaatg 1229
 Db 1182 gtgcacattcccccagccggggaagctgtccgcacacacacacacacagcaatg 1241
 QY 1230 gcaacacgcagcagcaac 1289
 Db 1242 gcaacacgcagcagcaac 1301
 QY 1290 tgggacagaaatttgaaggaggggaacaaagaatacttgggggggaaagtttaaa 1349
 Db 1302 tgggacagaaatttgaaggaggggaacaaagaatacttgggggggaaagtttaaa 1361
 QY 1350 aagaatltgaatltgcttgcagatattaggtacaaatggaggttttttcccaacag 1409
 Db 1362 aagaatltgaatltgcttgcagatattaggtacaaatggaggttttttcccaacag 1421
 QY 1410 ggaagaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1469
 Db 1422 ggaagaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1481
 QY 1470 tggcaggtgtggaaggggtcagccttctgcacacagagtgccccacgttgaacattc 1529
 Db 1482 tggcaggtgtggaaggggtcagccttctgcacacagagtgccccacgttgaacattc 1541
 QY 1530 tggagctggccatcccaattcaatcagtcacatagagagcaacaaatgaagaccttcgg 1589
 Db 1542 tggagctggccatcccaattcaatcagtcacatagagagcaacaaatgaagaccttcgg 1601
 QY 1590 cccaagcgttgcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 1649
 Db 1602 cccaagcgttgcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 1661
 QY 1650 cgtgaataataaagaagc 1666
 Db 1662 cgtgaataataaagaagc 1678

RESULT 9
 AA159655
 ID AA159655 standard; cDNA; 1690 BP.

AA159655;

22-Oct-2001 (first entry)

Human polynucleotide SEQ ID NO 3644.

Human; nootropic; immunosuppressant; cytosolic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS;

KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia; ss.
 OS Homo sapiens.
 PN WO20015312-A1.
 PD 26-JUL-2001.
 XX 26-DEC-2000; 2000MO-US34263.
 PR 21-JAN-2000; 2000US-0488725.
 PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0598042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 XX (HYSE-) HYSEQ INC.
 XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
 XX
 DR WPI: 2001-442253/47.
 DR P-FSDP: AAM40499.
 PT Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 PS Claim 1; SEQ ID NO 3644; 10078bp; English.
 XX
 CC The invention relates to human nucleic acids (AA157798-AA161369) and
 CC the encoded polypeptides (AAM58642-AAM42213) with nootropic,
 CC immunosuppressant and cytosolic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
 CC utilisation of the activities such as: immune system suppression,
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, arthritis and inflammation, leukaemias and
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.
 XX
 SO Sequence 1690 BP; 482 A; 416 C; 425 G; 367 T; 0 other;

Query Match 76.6%; Score 1297.4; DB 22; Length 1690;
 Best Local Similarity 99.6%; Pred. No. 0;
 Matches 1342; Conservative 0; Mismatches 1; Indels 4; Gaps 4;

QY 1 gttcttgaagaacacgttgatttaactctcttgcacaaagcttgaagcaacacattc 60
 Db 346 gttcttgaagaacacgttgatttaactctcttgcacaaagcttgaagcaacacattc 405
 QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
 Db 406 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 464
 QY 121 aaaaaatcatgaaacacatccagccaaagaatgacaaattctatctcttgggaatttc 180
 Db 465 aaaaaatcatgaaacacatccagccaaagaatgacaaattctatctcttgggaatttc 524
 QY 181 acgggagctgctgtctgtcttcttccaaagagatgccgttgcagcagggagatgccacc 240

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Db 525 acgggctgtgctctgtctgtcttccaaaggagtcggtgagcgagggagtcacac 584
Qy 241 ttcccaaaagtatgacaacgtgacggtcccgagggggaagcgccacccctaagttgc 300
Db 585 ttcccaaaagtatgacaacgtgacggtcccgagggggaagcgccacccctaagttgc 644
Qy 301 actttgacaacccgggtaccgggggtgagcgttaaacccagacacatctctatgct 360
Db 645 actttgacaacccgggtaccgggggtgagcgttaaacccagacacatctctatgct 704
Qy 361 gggaatgacaagtggtgctggtatctcgtgctgcttcttgagaacaacccaacgcag 420
Db 705 gggaatgacaagtggtgctggtatctcgtgctgcttcttgagaacaacccaacgcag 764
Qy 421 taacagatcgagatccagaacgttgatgtgtatgacgagggcccttaacctgtctgtg 480
Db 765 tacagatcgagatccagaacgttgatgtgtatgacgagggcccttaacctgtctgtg 824
Qy 481 cagaacacaacccaacccaagacctaggggtccacctattgtgcaagtatcccca 540
Db 825 cagaacacaacccaacccaagacctaggggtccacctattgtgcaagtatcccca 884
Qy 541 attgtagaatttcttcagatatctccatlaaigaagggaacaataattagcctacctgc 600
Db 885 attgtagaatttcttcagatatctccatlaaigaagggaacaataattagcctacctgc 944
Qy 601 atagcaactggtgacccagaagcctacggttactctggggaacaatcttccccaagcggt 660
Db 945 atagcaactggtgacccagaagcctacggttactctggggaacaatcttccccaagcggt 1004
Qy 661 ggcttctgtgagtgaaagcaacttgaagaatcaagagcaccacggagagtcagag 720
Db 1005 ggcttctgtgagtgaaagcaacttgaagaatcaagagcaccacggagagtcagag 1064
Qy 721 gactacagatgacgtgctcctcaatgacgt-ggcccgcgccgt-gtlaacggaagtlaaag 778
Db 1065 gactacagatgacgtgctcctcaatgacgtgagcgccgctgtgtaacggaagtlaaag 1124
Qy 779 taaccgtgaactatccacatatacttcaagaagcgaaggttaaggtgtcccggtggac 838
Db 1125 taaccgtgaactatccacatatacttcaagaagcgaaggttaaggtgtcccggtggac 1184
Qy 839 aaaaagggaacacgtgacgttgaagcctcagcagtcctccatagagattccgtgtgata 898
Db 1185 aaaaagggaacacgtgacgttgaagcctcagcagtcctccatagagattccgtgtgata 1244
Qy 899 aggatgacaagaagctgattgaaggaaagggtgaaagtgaagaacagaccccttc 958
Db 1245 aggatgacaagaagctgatt-aaggaaagggtgaaagtgaagaacagaccccttc 1303
Qy 959 tctcaaaactatcttcttcaatgtctctgaacatgactatggaactacattgctg 1018
Db 1304 tctcaaaactatcttcttcaatgtctctgaacatgactatggaactacattgctg 1363
Qy 1019 cctcaaaactggtgacacacacacacacacacacacacacacacacacacacacac 1078
Db 1364 cctcaaaactggtgacacacacacacacacacacacacacacacacacacacacac 1423
Qy 1079 gcgaagtgagcaacgagcgtcagagaggcaggtcgctgctgctgctccttcttcg 1138
Db 1424 gcgaagtgagcaacgagcgtcagagaggcaggtcgctgctgctgctccttcttcg 1483
Qy 1139 tcttgacctgtcttcaaatatttgatgtgagtcacattcccaacccgggaagctgc 1198
Db 1484 tcttgacctgtcttcaaatatttgatgtgagtcacattcccaacccgggaagctgc 1543
Qy 1199 gcgcacacacacacacacacacacacacacacacacacacacacacacacacacac 1258
Db 1544 gcgcacacacacacacacacacacacacacacacacacacacacacacacacacac 1603
Qy 1259 tacaatgaattagaagaacagcctcatggagagaagaatttgaggagggaagaa 1318

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Db 1604 tacaatgaattagaagaacacagcctcatgggacagaagaatttgaggagggaacaa 1663
Qy 1319 agaatcttgggggggaaaaaagttt 1345
Db 1664 agaatcttgggggggaaaaaagttt 1650

RESULT 10
AAZ47892
ID AAZ47892 standard; cDNA; 1032 BP.
XX
AC AAZ47892;
XX
DT 10-MAR-2000 (first entry)
XX
DE Human protein encoding cDNA SPO ID NO:2.
XX
KW Human; haematopoietic cell regulation; tissue generation; repair;
KW activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
KW receptor; ligand; autoimmune; infection-related immunodeficiency;
KW inflammatory disorder; neurological disease; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1032
FT /tag= a
FT /note= "no stop codon given"
XX
PI WO9558668-A1.
XX
PD 18-NOV-1999.
XX
PF 13-MAY-1999; 99MO-JP02485.
XX
PR 14-MAY-1998; 98JP-0131815.
XX
PA (ONOF) ONO PHARM CO LTD.
XX
PI Fukushima D, Shibayama S, Tada H;
XX
DR WPI; 2000-062298/05.
XX
DR P-PSDB; AAY57601.
XX
PT New polypeptides of human origin having cell regulatory, tissue
PT generation, coagulant and other activities -
XX
PS Claim 4; Page 41; 84pp; Japanese.
XX
CC The present sequence encodes a specifically claimed novel human protein.
CC The novel human protein can be used in therapeutic drugs for the
CC prevention and treatment of a broad range of disorders including
CC autoimmune and infection-related immunodeficiency, inflammatory
CC disorders, and neurological diseases. The novel protein is expected of
CC having haematopoietic cell regulatory activity, tissue generation/
CC reparation activity, activin/inhibin activity, taxis/chemotaxis activity,
CC blood coagulation and thrombus activity, and receptor/ligand activity.
XX
SQ Sequence 1032 BP; 267 A; 281 C; 270 G; 214 T; 0 other;

Query Match 61.0%; Score 1032; DB 21; Length 1032;
Best Local Similarity 100.0%; Pred. No. 5.6e-250.
Matches 1032; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 130 atgaaacacatccagcgaacaaatgacacattctatctcttgggaattctcaagggtg 189
Db 1 atgaaacacatccagcgaacaaatgacacattctatctcttgggaattctcaagggtg 60
Qy 190 gctgctctgtctcttccaaagagtgccgtgacgagcgagagatgccaccttcccaaa 249
Db 61 gctgctctgtctcttccaaagagtgccgtgacgagcgagagatgccaccttcccaaa 120

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QY 583 aatattagctcactgcatagcaactgtagacagcagcactgacttacttgagacac 642
 Db 361 aatatagctcactgcatagcaactgtagacagcagcactgacttacttgagacac 420
 QY 643 atctccccaagcggttggttgtagtgaagaaacttggaattcaggcgac 702
 Db 421 atctccccaagcggttggttgtagtgaagaaacttggaattcaggcgac 480
 QY 703 acccgagagcagtcagggagactgacagtgacgtgctccaatgaagtgcccgcccg 762
 Db 481 acccgagagcagtcagggagactgacagtgacgtgctccaatgaagtgcccgcccg 540
 QY 763 gtacgagagtagaagtgacccgtgaactacacacataattcagaagcagaagtgac 822
 Db 541 gtacgagagtagaagtgacccgtgaactacacacataattcagaagcagaagtgac 600
 QY 823 ggtgtcccggtggaacaaaggagacactgacgtggaagcctcagcagtcctccacga 882
 Db 601 ggtgtcccggtggaacaaaggagacactgacgtggaagcctcagcagtcctccacga 660
 QY 883 gaattccagtgtacaaagatgacaaagactgattgaagaaagaaaggggtgaagtg 942
 Db 661 gaattccagtgtacaaagatgacaaagactgattgaagaaagaaaggggtgaagtg 720
 QY 943 gaaacagaccttctcctcaaaactatcttcttaagtctctgacacatgactatggg 1002
 Db 721 gaaacagaccttctcctcaaaactatcttcttaagtctctgacacatgactatggg 780
 QY 1003 aactacactgctgctcctcaacaaagctgagcacaacaaatgacagatcatgtatt 1062
 Db 781 aactacactgctgctcctcaacaaagctgagcacaacaaatgacagatcatgtatt 840
 QY 1063 ggtccagcgccgctcagcagagtgacagcagcagtcgagagggcagcgtgctctg 1122
 Db 841 ggtccagcgccgctcagcagagtgacagcagcagtcgagagggcagcgtgctctg 900
 QY 1123 ctgctgctcttctgcttgctgacactgcttcaatt 1161
 Db 901 ctgctgctcttctgcttgctgacactgcttcaatt 939

RESULT 12

AAA44536
 ID AAA44536 standard; cDNA; 832 BP.

AC AAA44536:

XX 21-AUG-2000 (first entry)

DE Human secreted expressed sequence tag SEQ ID NO:1111.

XX Human; mouse; chicken; rat; secreted expressed sequence tag; SEST;
 KW expressed sequence tag; EST; probe; chemotactic; proliferative;
 KW immunomodulatory; haematopoietic; chemokine; angiogenic; haemostatic;
 KW thrombolytic; antiinflammatory; cytostatic; antithrombotic; antifungal;
 KW antiviral; antidiabetic; antiasthmatic; vulnerary; antiparkinsonian;
 KW antitumor; osteopathic; neuroprotective; nootropic; antipsoriatic;
 KW cerebroprotective; anticonvulsant; antidepressant; allergic condition;
 KW vaccine; autoimmune disorder; multiple sclerosis; asthma; myeloid cell deficiency; ulcer;
 KW lymphoid cell deficiency; burn; osteoporosis; osteoarthritis;
 KW central nervous system disorder; Alzheimer's disease; stroke;
 KW Parkinson's disease; Huntington's disease; coagulation disorder;
 KW haemophilia; thrombosis; inflammatory disorder; Crohn's disease;
 KW tumour; infection; depression; psoriasis; ss.

OS Homo sapiens.

XX MO200021991-A1.

XX 20-APR-2000.

PD XX

PF 15-OCT-1999; 99WO-US24206.
 XX 15-OCT-1998; 98US-0104436.
 PR (GEM) GENETICS INST INC.
 XX
 PI Jacobs K, McCoy JM, Lavalie ER, Collins-Racie LA, Evans C;
 PI Merberg D, Treacy M, Bowman MR;
 XX
 DR WPI: 2000-317938/27.
 XX
 PT Isolated polynucleotides, and encoded proteins, comprising secreted
 PT expressed sequence tags (SESTs), useful for treating various disorders
 PT such as autoimmune, infectious, and central nervous system disorders -
 XX
 PS Claim 1: Page 487-488; 803pp; English.

CC AAA44536 to AAA45925 represent specifically claimed secreted expressed
 CC sequence tags (SESTs), isolated from human, mouse, chicken and rat
 CC tissue sources. The SESTs can have a range of activities depending on
 CC the tissues they were isolated from. The activities include:
 CC chemotactic; proliferative; immunomodulatory; haematopoietic;
 CC chemokine; angiogenic; haemostatic; thrombolytic; antiinflammatory;
 CC cytostatic; antithrombotic; antifungal; antiviral; antidiabetic;
 CC antiasthmatic; vulnerary; antitumor; osteopathic; neuroprotective;
 CC nootropic; antiparkinsonian; antipsoriatic; cerebroprotective;
 CC anticonvulsant; and antidepressant. The SESTs can be used for gene
 CC therapy and in vaccines. The SESTs are useful as probes for the
 CC identification and isolation of full-length cDNAs and genomic DNA
 CC molecules which correspond to the SESTs. Proteins encoded by the SESTs
 CC are useful in assays for determining biological activity and raising
 CC antibodies. They may be useful for treatment of autoimmune disorders
 CC (multiple sclerosis, insulin dependent diabetes), allergic conditions
 CC (asthma), myeloid or lymphoid cell deficiencies, wounds, burns, ulcers,
 CC osteoporosis, osteoarthritis, central nervous system disorders
 CC (Alzheimer's, Parkinson's, Huntington's disease, stroke), coagulation
 CC disorders (haemophilia, thrombosis), inflammatory disorders (Crohn's
 CC disease), tumours, bacterial, fungal or viral infections, depression and
 CC psoriasis. AAA45926 to AAA45931 represent linker variants which are given
 CC in the exemplification of the present invention.

XX
 SQ Sequence 832 BP; 246 A; 217 C; 206 G; 163 T; 0 other;

Query Match 46.5%; Score 787.8; DB 21; Length 832;
 Best Local Similarity 99.6%; Pred. No. 1,7e-188;
 Matches 800; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 1 gtccttcagcaaacagtgatttaattctccttcagcaaacagcttgagagcaacaatct 60
 Db 27 gtccttcagcaaacagtgatttaattctccttcagcaaacagcttgagagcaacaatct 86
 QY 61 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 120
 Db 87 atcaggaagaagaagaagaagaagaagaagaagaagaagaagaagaagaagaaga 145
 QY 121 aaaaaaacatgaagaacacatccagcacaagaatgacaaattctatctcttggcaatctc 180
 Db 146 aaaaaaacatgaagaacacatccagcacaagaatgacaaattctatctcttggcaatctc 205
 QY 181 acggggctgctgtctctgtctcttcacagagtgcccggtgacgagcgagatgccac 240
 Db 206 acggggctgctgtctctgtctcttcacagagtgcccggtgacgagcgagatgccac 265
 QY 241 ttccccaagctatgagcaacgtgagaggtccgagcagggagagagcgccacctcaggtgc 300
 Db 266 ttccccaagctatgagcaacgtgagaggtccgagcagggagagagcgccacctcaggtgc 325
 QY 301 actattgacaacgggtgacccgggtgctgctgctgctgctgctgctgctgctgctgct 360
 Db 326 actattgacaacgggtgacccgggtgctgctgctgctgctgctgctgctgctgctgct 385
 QY 361 gggatgacaagtggtgctgctgctgctgctgctgctgctgctgctgctgctgctgctgct 420

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|||||
Db 386 ggggaatgaacaagtgtgcttgatcctcgtgtgtccttcgagcaacacccaagcag 445
Qy 421 taagatcgaatccagaacgtggtgtgtatgcagggcccttacctctcgtg 480
Db 446 taagatcgaatccagaacgtggtgtgtatgcagggcccttacctctcgtg 505
Qy 481 caagcagaacaacccaagaccttaggtccacctatgtgcaatctcccaaa 540
Db 506 cagacagacaacccaagaccttaggtccacctatgtgcaatctcccaaa 565
Qy 541 attgtagagattcttcagatatacctaatgaagggaacaaatattagcctac 600
Db 566 attgtagagattcttcagatatacctaatgaagggaacaaatattagcctac 625
Qy 601 atagcaactgtgagacagagccttaagttacttggaacacatctctccaaagg 660
Db 626 atagcaactgtgagacagagccttaagttacttggaacacatctctccaaagg 685
Qy 661 ggccttgtgagtgaagacaatacttggaattcagggcatcacccggagcag 720
Db 686 ggccttgtgagtgaagacaatacttggaattcagggcatcacccggagcag 745
Qy 721 gactagagtgagtgctcctcaatgcgtggccggcccggtgtagcgaggaag 780
Db 746 gactagagtgagtgctcctcaatgcgtggccggcccggtgtagcgaggaag 805
Qy 781 accgtgaactatccaccatacat 803
Db 806 accgtgaactatccaccatacat 828

RESULT 13
AA051015 standard; cDNA; 3069 BP.
ID AA051015
AC AA051015;
XX
XX 17-MAY-1994 (first entry)
DT
XX
XX Rat opioid receptor gene.
DE
XX
XX Transgenic; narcotics; analgesics; expression; antisense therapy;
KW analogue; derivative; degradation; chronic pain; cancer; morphine;
KW detection; diagnosis; addictions; ds.
XX
XX Rattus rattus.
OS
XX
XX W09321309-A.
PN
XX 28-OCT-1993.
PD
XX 29-MAR-1993; 93WO-US02913.
PE
XX 10-APR-1992; 92US-0866677.
PR
XX (LEEN/) LEE N M.
XX (LIPP/) LIPPMAN D.
XX (LOHH/) LOH H H.
PA
XX
XX Lee NM, Lipman D, Loh HH;
PI
XX WPI; 1993-351719/44.
DR
XX
XX Transgenic animals and novel oligo-nucleotide constructs - useful
XX in diagnosis and treatment of addiction to narcotic analgesics
XX
XX Claim 5; Page 25-30; 49pp; English.
PS
XX The sequence is that of the rat opioid receptor gene. The gene is
XX able to hybridise with endogenous mRNA for an opioid binding protein
XX to suppress expression of an opioid receptor gene. Transgenic
XX animals contg. the gene in reverse are useful in diagnosis and

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CC treatment for addiction to narcotic analgesics. By admin. of
CC antisense fragments of the gene, chronic pain, such as in terminal
CC cancer patients can be treated without development of tolerance to
CC analgesics such as morphine. The gene may also be used
CC diagnostically to detect addicts.
CC See also AA051016-7.
XX
XX Sequence 3069 BP; 803 A; 787 C; 661 G; 818 T; 0 other;
SQ

Query Match 31.9%; Score 540.8; DB 14; Length 3069;
Best Local Similarity 71.2%; Pred. No. 5.4e-126;
Matches 729; Conservative 0; Mismatches 292; Indels 3; Gaps 1;

Qy 149 aaatgacacattctatctctgtggcaatcttcaagggcgtgcgtctgtccttc 208
Db 636 agatgtacacatcccgcccaacggtacgtctcttcgggccaacacagccctcttacc 695
Qy 209 aaggagtgccttgccgagcggagatgcacaccttcccaaaagtatggaacagtacg 268
Db 696 caggagtgccggtgcgagcgagatgcacaccttcccaaaagtatggaacagtacg 755
Qy 269 tccggcagggggagagcgccacctcaagtgatgacacattggaacccgggtaccgg 328
Db 756 tccggcagggggagagcgccacctcaagtgatgacacattggaacccgggtaccg 815
Qy 329 cctggttaacccgacagcacctctatctgtggaatgacaagtgtgctgacatcc 388
Db 816 cctggttaacccgacagcacctctatctgtggaatgacaagtgtgctgacatcc 875
Qy 389 gcgtgtcctctgagcaacacccaacgagtagacagcatccagacagtgatg 448
Db 876 gagtgtatctcttggttcaacacgctaccacagtagacatgatccagaatgtgatg 935
Qy 449 tgtatgacagggccttaccacctgctcgtgtgagacagacaaccaccaagctcta 508
Db 936 ttatgacagggctcgtacacacctgctcgtgtgagacagacaaccaccaagctcc 995
Qy 509 ggggtccacctatgtgcaatctcccaaaatgtgagattcttccagatatcca 568
Db 996 ggggtccacctatgtgcaatctcccaaaatgtgagattcttccagatatccag 1055
Qy 569 ttaatgaagggaacatatagctccacctgacatgacaactgtagaccagacgcta 628
Db 1056 tgaatgagataagcagtgatgacctgtgtatgctcgtcaattgagaccagacga 1115
Qy 629 ttacttgagacaatctctccca---aagcgggttgctgtgtgaggaagaaatct 685
Db 1116 tgacatggcgacacacctgacatgacaaggaagccaggccttltgagtgaatgaat 1175
Qy 686 tgaatctagggcatcaccccgagagcagtgacaggaactgaagtgacgtgacctca 745
Db 1176 tgaatctcagacatcaacaaagcagcaacatctgagagatgagtgcagcgcttga 1235
Qy 746 acgtggcggcgccgttgtagcagagtgaaaggtcacccgtgaaactatccacata 805
Db 1236 atgtcgtcaccttgatgttgcgaaagttaaatactgttaactatctccatact 1295
Qy 806 cagaagcagaaggtacaagtgctcccggtgggaanaaagggaacatcgagtggaag 865
Db 1296 caaaagcagaagacacatggtcgttcaagtagccaagagggcctcgtgagtgaa 1355
Qy 866 cagaagcagaagacacatggtcgttcaagtagccaagagggcctcgtgagtgaa 925
Db 1356 ctgtctcccatggtcgtatctcagtggttcaaggaatataccaggttagcaatcg 1415
Qy 926 agaaagggtgaaagtgaanaacagacattctctccaactcaatctcttcaatgt 985
Db 1416 tgaatggcgttggaattgagacaagaagccgacatgacacttgaacttctcaatgt 1475
Qy 986 ctgaacatgactatggaatacaactgtcgtgctccaacaaagctgggccaacaa 1045
Db 1476 cagagaagagattatggaactatacctgtgtgcacaaacagcttggaacacaa 1535

```


DE Rat opioid receptor gene.
 XX Transgenic; narcotics; analgesics; expression; antitense therapy;
 KW analogue; derivative; degradation; chronic pain; cancer; morphine;
 KW detection; diagnosis; addicts; ds.
 XX Rattus rattus.
 OS
 XX W09321309-A.
 PN
 XX 28-OCT-1993.
 PD
 XX 29-MAR-1993; 93WO-US02913.
 PF
 XX 10-APR-1992; 92US-0866677.
 PR
 XX (LEEN/) LEE N M.
 PA (LIPP/) LIPPMAN D.
 PA (LOHH/) LOH H H.
 XX
 PI Lee NM, Lippman D, Loh HH;
 XX
 DR WPI; 1993-351719/44.
 XX
 PT Transgenic animals and novel oligo-nucleotide constructs - useful
 PT in diagnosis and treatment of addiction to narcotic analgesics
 XX
 PS Claim 5; Page 30-3; 49pp; English.
 XX
 CC The sequence is that of the rat opioid receptor gene. The gene is
 CC able to hybridise with endogenous mRNA for an opioid binding protein
 CC to suppress expression of an opioid receptor gene. Transgenic
 CC animals contg. the gene in reverse are useful in diagnosis and
 CC treatment for addiction to narcotic analgesics. By admin. of
 CC antisense fragments of the gene, chronic pain, such as in terminal
 CC cancer patients can be treated without development of tolerance to
 CC analgesics such as morphine. The gene may also be used
 CC diagnostically to detect addicts.
 CC See also AAQ51015-7.
 CC
 XX
 SO Sequence 2337 BP; 581 A; 578 C; 520 G; 658 T; 0 other;

Query Match 30.9%; Score 523; DB 14; Length 2337;
 Best Local Similarity 72.2%; Pred. No. 1.4e-121;
 Matches 695; Conservative 0; Mismatches 265; Indels 3; Gaps 1;
 QY 210 agagatgcccgtgcgcagcagagatgacacccccaagctatgacacgtgacgt 269
 |||||
 DB 547 agagatgcccgtgcgcagcagagatgacacccccaagctatgacacgtgacgt 606
 QY 270 ccgcagagggagagcgcacccctcaagtgcactattgacaaccgggtcacccgggtgac 329
 |||||
 DB 607 ccgcagagggagagcgcacccctcaagtgcactattgacaaccgggtcacccgggtgac 666
 QY 330 ctggtctaaacgcagcacatcctctatgctggaatgacaagtgtgacctgaccccg 389
 |||||
 DB 667 ctggtctaaacgcagcacatcctctatgctggaatgacaagtgtgacctgaccccg 726
 QY 390 cgtgtgctctctgacacaccccaacgcagctacagcatcgagatccagaactgagt 449
 |||||
 DB 727 agtgcatacctgtgcaacaacgcctaccagctacagctacatgacccaagaatgtagt 786
 QY 450 gtagacagagggccttaccactgtcgtgacagacacaaccaccaagaagacctag 509
 |||||
 DB 787 ttatgacgaaggtccgtacacctgtctgtgacagacagaatcaaccaccaaacctccg 846
 QY 510 gttcacactcatgtgcaagtatctcccaaatgtgagagattcttcacatctccat 569
 |||||
 DB 847 gttcacactcatgtgcaagtatctcccaaatgtgagagattcttcacatctctat 906
 QY 570 taatgaagggaacaatatgacctcacactcatagcaactgtgtagaccagagcctacgt 629
 |||||

DB 907 gaatgagataagcagctgtgaccttgtaatgtctgcgaattgacagaccagaacaacagt 966
 QY 630 tacttgagacacatctctccca---aagcsgtggcttgcttgagtgagaagcaataact 686
 |||||
 DB 967 gacatggcagacaccgtgacgacaggaagccagggcttgtagtgagaatgataact 1026
 QY 687 ggaattccagggcatccaccgggagcagctagggagctacagatgacgtctcccaatga 746
 |||||
 DB 1027 ggaattccagggcatccaccgggagcagctagggagctacagatgacgtctcccaatga 1086
 QY 747 cgtgcccggcccggtggtgacggaagtaagtgacacccggaactatccacataacttc 806
 |||||
 DB 1087 tgtgtgcacctgtgattgttcggaagtaaaatcactgtaaactatccctccatatactc 1146
 QY 807 aagaagcgaaggtgacaggtgtcccggtgggacaaaagggagacactgcagtgtaagcc 866
 |||||
 DB 1147 aagaagcgaagacactggtgtttagtgagccagaagggcatccctgagctgtgaagcc 1206
 QY 867 agcagtcctccatagcagaattccacagtggtacagaagtagcaaaagactgtatgaagaa 926
 |||||
 DB 1207 tgcgtcccatggtctgtatccagtggttcaagagagataccaggttagccactgacct 1266
 QY 927 gaaaggggtgaaagtggaaaacagaccttccctcaaacctcaactcttccatgtccc 986
 |||||
 DB 1267 ggaatggcgtggaattggaacaaaaggccgcatatccacttgcacttcttcaatgtctc 1326
 QY 987 tgaacatgactatgggaactacacttgcgtggtccccaacaaagctgggccaacaaatga 1046
 |||||
 DB 1327 agagaaggtatattggaactatactctgtgtgccaacaaagcttgggaacaaatga 1386
 QY 1047 caagcatatgctatttgttccagggccgtcagcagagtgagacaagcagcagctgagag 1106
 |||||
 DB 1387 cagatcacccctgattggccttgagcagctcatgtgtgtaaacctgcgtctagaagc 1446
 QY 1107 ggcaggtctgctgtgcctgcctctctcgtgtcgtacacccgcttcccaatttgatg 1166
 |||||
 DB 1447 actggtctgtctgtcctcctcaggaacctcttggccaccttccatcattcaagtttgata 1506
 QY 1167 tga 1169
 ||
 DB 1507 aga 1509

Search completed: July 11, 2002, 23:01:30
 Job time: 8958 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 18:35:21; Search time 2986.73 Seconds

(without alignments)
4663.581 Million cell updates/sec

Title: US-09-700-397-1

Perfect score: 1032

Sequence: 1 atgaacacccatccagccaaa.....tgacactgtcttcaattt 1032

Scoring table: IDENTITY:NUC

Gapop 10.0, Gapext 1.0

Searched: 13736207 seqs, 674847542 residues
Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: g_d_estl:*
10: g_d_estl2:*
11: g_d_hic:*
12: g_d_gss:*
13: em_gss_hum:*
14: em_gss_inv:*
15: em_gss_pln:*
16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	635.2	61.6	1039	10	BE798585 601581610
2	541	52.4	865	10	BE798585 603291469
3	531.4	51.5	545	10	BE263639 601192064
4	521	50.5	732	10	BE1551784 603197479
5	507	49.1	1015	9	AL533026 AL533026
6	495.4	48.0	784	10	BE1549918 603194765
7	494.8	47.9	580	10	BE1548566 603189502
8	463	44.9	768	9	AU080629 AU080629
9	462	44.8	661	10	BM009450 BM009450
10	462	44.8	953	10	BM423716 AGENCOURT
11	457.4	44.3	524	9	BE014142 125737 MA
12	455	44.1	979	10	BE261691 602373361
13	450	43.6	849	10	BE1755360 603024964
14	447.6	43.4	553	10	BE864555 UT-M-BHL-
15	423.2	41.0	633	10	BE706987 602672194
16	411.4	39.9	754	10	BE1598759 603245538
17	408.8	39.6	671	9	BE644996 BE644996

18	404.2	39.2	557	10	BM256660 520043 MA
19	396.8	38.4	533	10	BE1341675 369186 MA
20	388.8	37.7	754	10	BE1550038 603192502
21	371	35.9	705	10	BE704152 602687364
22	356.8	34.6	683	9	BE640070 BE640070
23	347.2	33.6	548	9	BE015245 127482 MA
24	344	33.3	806	9	AU051132 AU051132
25	336	32.6	522	10	BE1553032 603193672
26	328.8	31.9	688	9	BE646531 BE646531
27	325	31.5	329	10	F06205 F06205
28	310.2	30.1	655	10	BE1548049 603196558
29	310.2	30.1	602	10	BE611718 BE611718
30	295	28.6	764	10	BE1752729 603028343
31	291.6	28.3	415	10	BE18841 YG22906.r1
32	290	28.1	290	10	F08994 F08994
33	288.8	28.0	567	10	BE078551 BE078551
34	286.2	27.7	497	9	BE854833 BE854833
35	285.6	27.7	579	9	BE644523 BE644523
36	284.2	27.5	528	9	BE856778 BE856778
37	261	25.3	456	9	AE369684 AE369684
38	238	23.1	282	10	R75391 R75391
39	235.6	22.8	788	10	BE1767217 BE1767217
40	235.4	22.8	492	9	AE967001 AE967001
41	231.8	22.5	277	10	BE1011319 BE1011319
42	220	21.3	444	9	AE682970 AE682970
43	210	20.3	229	9	AE450172 AE450172
44	209	20.3	257	9	AE327110 AE327110
45	208.4	20.2	1148	10	BE466102 AGENCOURT

ALIGNMENTS

RESULT 1
LOCUS BE798585 1039 bp mRNA linear EST 20-SEP-2000
DEFINITION 601581610F1 NIH_MGC_7 Homo sapiens CDNA clone IMAGE:3935955 5',
mRNA sequence.
ACCESSION BE798585
VERSION BE798585.1 GI:10219783
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 1039)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: gcaps-r@mail.nih.gov
Tissue Procurement: DCID/DRP
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNMF)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNMF at: image.llnl.gov
Plate: L1CM79 row: d column: 04
High quality sequence stop: 849.
Location/Qualifiers
1. 1039
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3935955"
/clone_1lb="NIH_MGC_7"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="DH10B (phage-resistant)"
/note="Organ: lung; Vector: pORF7; Site_1: XhoI; Site_2:
EcoRI; CDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adapter: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in

FEATURES

source

DB 241 CACATCTCTCCCAAGCGGTTGGCTTGTGTAAGTAAACCGAATTCTTGTTATTCATG

Best Local Similarity: 25.00; E-Val: NO: 7.1E-150;
Matches 543; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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QY 1 atgaaccacccagcccaaaatgacacattatctctctgggaactcttcacgggctg 60
Db 188 ATGAAACCATCCAGCCAAAATGACACATTCATCTCTGGGCAATCTTCAACGGGCTG 247
QY 61 gctgctctgtctctctcaaggatgcccgtgcagcgaggaatgcacacctcccaaa 120
Db 248 GCTGCTGTCTCTCTCCAAAGAGATGCCCGTGGCAGGAGATGCCACTCTCCCAAA 307
QY 121 gctatggaacagtggaaggtccggaaggagagagagagagagagagagagagag 180
Db 308 GGTATGGAACAAGTGACGGTCCGGCAGGGGAGAGCCGCCACCTCAAGTGCACTATTGAC 367
QY 181 aacgggtccaccgggtggtcctgctaaacgcgcacacacacacacacacacacacac 240
Db 368 AACGGGTCCACCGGGTGGCTTGGCTTAACCCAGCAACACATCCATATCTTGGAATGAC 427
QY 241 aagtggtgctgtgactcctcgtgctgctctgagcaacacacacacacacacacacac 300
Db 428 AAGTGTGCTGATCTCCGCTGCTCTTGAACAACACCAACGCAAGTAAGCATC 487
QY 301 gagatccgaacagtgatgtgtatgacagagagagagagagagagagagagagagagac 360
Db 488 GAGATCCAGAAAGTGAGATGTATGACGAGAGGCCCTTACACTGCTGCTGACAGACAGAC 547
QY 361 aaccacccaagacctctagaggtccacctcattgtgcaaglatctcccaaaattgagag 420
Db 548 AANCAACCAAGACCTTAGAGGTCCACCTCATTTGCAAGTATCTCCCAAAATTTGAGAG 607
QY 421 attcttcagatctccatlaattgaaggagaaatattagctcactgcagatagaaact 480
Db 608 ATTCTTCAGATATCTCCATTAATGAAGGAAATATATACCTCCACCTGCAATACACT 667
QY 481 ggtagaagcagagcctcaggttacttgg-agacacactctcccaagcggttggcttgt 539
Db 668 GGTAGACCAAGACCTCAGGTACTTGGAAAGACACATCTCTCCCAAAACCG-TCGCTTGT 726
QY 540 gaatga 545
Db 727 GAGTGA 732

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RESULT 5

AL533026 1015 bp mRNA linear EST 13-FEB-2001

LOCUS AL533026 LTI_FL015.Brnl Homo sapiens cDNA clone CSODN005YD20 5

DEFINITION prime, mRNA sequence.

ACCESSION AL533026

VERSION AL533026.1 GI:12796519

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1015)

AUTHORS Li W.B., Gruber C., Jesse J., and Polayes D.

TITLE Full-length cDNA libraries and normalization

JOURNAL Unpublished (2001)

COMMENT Contact: Genoscope

Genoscope - Centre National de Sequencage

BP 191 91006 Evry cedex - France

Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr.

FEATURES

source

1. 1015

Location/Qualifiers

1. 1015

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="CSODN005YD20"

/clone_1bp="LTI_FL015.Brnl"

/sex="male"

/tissue_type="Adult brain"

/note="Vector: PCWSPORT 6; Site_1: NotI; 1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and

cloned into the Not I and Eco RV sites of the PCWSPORT 6 vector. Library was constructed by Life Technologies. Contact : Peng Liang Life Technologies, a division of Invitrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 Email : filiang@lifetech.com URL : http://fulllength.invitrogen.com"

BASE COUNT 295 a 249 c 251 g 219 t 1 others

ORIGIN

Query Match 49.1%; Score 507; DB 9; Length 1015;

Best Local Similarity 84.3%; Pred. No. 3e-126;

Matches 635; Conservative 0; Mismatches 0; Indels 118; Gaps 1:

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QY 398 aagttctcccaaatgtagagattcttcagatctccatcaatgaaggaacata 457
Db 90 AAGTATCTCCCAAAATTTGAGATTTCTTCAGATATCTCCATTAATGAAGGAACATA 149
QY 458 tttagctcaactgataagcaactgtgagacagagcctacggttacttggagacacatc 517
Db 150 TTAGCCTCAACCTGCATAGCAACTGTGAGACAGACCTTAAGCTTACTTGGAGACATCT 209
QY 518 ctcccaagcggttggcttggcttggatggaagaaatcttggaaattccagggatcacc 577
Db 210 CTCCCAAGCGGTTGGCTTGGTGTGAGTGAAGAGCAATCTTGAATTCAGGSGCATCC 269
QY 578 gggagagctcaaggagactacagtgagtgagtcctccatgaagctgagcgcccggtgtac 637
Db 270 GGGAGAGTCAAGGAGTACAGATGAGTGCTCCCAATGAGCTGGCCGCCCGTGGTAC 329
QY 638 gggagaaaggttaccgtgtaactatccacatattcagaagccaaggagtagagtg 697
Db 330 GGAAGATAAGGTACCGCTGACATCCACATTAATTCAGAGCCAAAGGATCAGGTG 389
QY 698 tccccgtggaaaaaaggagacactgcagtgtggaagcctccagcagctccctccagagat 757
Db 390 TCCCGTGGGCAAAAGGGGACATCGATGTGAAGCTTCAGCAGTCCCTCAGCAGAAAT 449
QY 758 tccagtggtacaagatgacaaa----- 781
Db 450 TCCAGTGTACAGAGATACAAAAGAGCTGAATCTCATTCACAGTTTGGTTATGATGGG 509
QY 782 ----- 781
Db 510 AAGTCTTCCCTCCCGTGTGGAGCAATGTGTCAAAAGCGCCAGTGGATCAATCAGCCT 569
QY 782 -----gactgattgaagaaaggaagggtgaaagtggaaaac 819
Db 570 GACTGTCTCGCAGAAATCTCCCGACGTGATGAAGGAAGAAAGGGGTGAAGTGGAAAC 629
QY 820 agaccttcctcctcaaaactatctctcctcaatgctctgacatgactatggaaactac 879
Db 630 AGACCTTCTCTCAAAACATCTCTCTCTCAATGTCTGAAACATGACTATGGAACTAC 689
QY 880 acttgctgtgctcctcaaaagcttggcacaacacacacacacacacacacacacacac 939
Db 690 ACTTGGTGTGGCTCCCAACAACTGGGCAACACCAATGGCAGATCAATGATTTGTGTCA 749
QY 940 gggcgctgaagaggttagaagagcagctgagagagagagagagagagagagagagag 999
Db 750 GGGCGCTGAGGAGGTGAGCAAGGACGCTCAGAGAGGGGAGGCTGCTGCTGCTGCTG 809
QY 1000 cctctctgtctgacactgtctctcaatt 1032
Db 810 CTTCTTGTGTCTTGCACCTCTCTCTCAATTT 842

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RESULT 6

B1549918 784 bp mRNA linear EST 05-SEP-2001

LOCUS B1549918

DEFINITION 603194765F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:5274161 5', mRNA sequence.

```

ACCESSION      B1549918
VERSION        B1549918.1
KEYWORDS       GI:15437230
SOURCE         human.
ORGANISM       Homo sapiens
REFERENCE      1 (bases 1 to 784)
AUTHORS        NIH-MGC
TITLE          National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL        Unpublished (1999)
COMMENT        Contact: Robert Strausberg, Ph.D.
                Email: cgapbs-remail.nih.gov
                Tissue Procurement: Miklos Palcovits, M.D., Ph.D.
                CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
                Toshiyuki and Piero Carninci (RIKEN)
                CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
                DNA Sequencing by: Incyte Genomics, Inc.
                Clone distribution: MGC clone distribution information can be
                found through the I.M.A.G.E. Consortium/LNL at:
                http://image.llnl.gov
                Plate: L1AM1692 row: b column: 18
                High quality sequence stop: 726.
FEATURES
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    /db_xref="taxon:9606"
    /clone="IMAGE:5274161"
    /clone_lib="NIH-MGC_95"
    /tissue_type="hippocampus"
    /lab_host="DH10B"
    /note="Organ: brain; Vector: pBluescriptR (modified
    pBluescript KS+); Site.1: BamHI; Site.2: SalI-XhoI (gtcgag
    ); Oligo-dT primed using primer 5'-TTTTTTTTTTTTTTVN-3',
    size-selected for average insert size 2.5 kb and
    normalized to R0T 5. This is a primary library enriched
    for full-length clones and constructed using the
    Cap-trapper method (Carninci, in preparation). Library
    constructed by M. Brownstein (NHGRI/NHGR), National
    Institutes of Health). Note: this is a NIH-MGC Library."
BASE COUNT      234 a      211 c      184 g      155 t
ORIGIN
Query Match      48.0%; Score 495.4; DB 10; Length 784;
Best Local Similarity 98.0%; Pred. No. 3.6e-123;
Matches 534; Conservative 0; Mismatches 6; Indels 5; Gaps 3;
QY      1 atgaaacatccagcaaaatgcaaatctatctcttgggcaatcttcaggggctg 60
      193 atgaaacatccagcaaaatgcaaatctatctcttgggcaatcttcaggggctg 252
DB
QY      61 gctgctctgtgtctcttccaaggagtgccgtgcaagcgagagatgcacactcccaaa 120
      253 gctgctctgtgtctcttccaaggagtgccgtgcaagcgagagatgcacactcccaaa 312
DB
QY      121 gctatgacacactgagaggtccgagagagagagagcgcaacctcaggtgacattatgac 180
      313 gctatgacacactgagaggtccgagagagagagagcgcaacctcaggtgacattatgac 372
DB
QY      181 aaccgggtcacccgggtgagccttgctaaacggcgacacacatctctatgttgggaatgac 240
      373 aaccgggtcacccgggtgagccttgctaaacggcgacacacatctctatgttgggaatgac 432
DB
QY      241 aagtggtgcttgagatctctgctgtgtcttcttgagcaaaccccaacgagatgagctc 300
      433 aagtggtgcttgagatctctgctgtgtcttcttgagcaaaccccaacgagatgagctc 492
DB
QY      301 ggaatccagaaagtgtgtatgtagcagagggcccttaacacgtcgtgtagagacacac 360
      493 ggaatccagaaagtgtgtatgtagcagagggcccttaacacgtcgtgtagagacacac 552
QY      361 aaccacccaagaaccttgaaggtccacctcatgttgcaaglatatcccaaatgttagag 420

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DB      553 AACACCCAAAGCCTCTAGGGCTCCACCTCATTTGTGCAAGTATCTCCAAAA-TGTAGAG 611
QY      421 attcttcagatatccatcaatgaaggaacatatagctca-cctgcatagacaac 479
      612 ATTCTTCAATATCTCCATTAATGACGAGACAAATATAGCTACCCCTCATAGACAAC 671
QY      480 tggtagacagagcctcaggttaacttggagacac--atctctccaaagcgttgctt 556
      672 TGGTAGACAGAGCCTCAGGTACTTGGAGACACATCTCCCAAAAAGGAGGTGGCTT 731
DB
QY      537 tgtga 541
      732 CGCGA 736
RESULT 7
B1548566      580 bp      mRNA      linear      EST 05-SEP-2001
LOCUS        603189502F1 NIH-MGC_95 Homo sapiens cDNA clone IMAGE:5260753 5',
DEFINITION   mRNA sequence.
ACCESSION    B1548566
VERSION      B1548566.1
KEYWORDS     GI:15435878
SOURCE       human.
ORGANISM     Homo sapiens
REFERENCE    1 (bases 1 to 580)
AUTHORS      NIH-MGC
TITLE        Unpublished (1999)
JOURNAL      Contact: Robert Strausberg, Ph.D.
COMMENT      Email: cgapbs-remail.nih.gov
                Tissue Procurement: Miklos Palcovits, M.D., Ph.D.
                CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
                Toshiyuki and Piero Carninci (RIKEN)
                CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
                DNA Sequencing by: Incyte Genomics, Inc.
                Clone distribution: MGC clone distribution information can be
                found through the I.M.A.G.E. Consortium/LNL at:
                http://image.llnl.gov
                Plate: L1AM1657 row: d column: 02
                High quality sequence stop: 580.
FEATURES
source
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    /tissue_type="hippocampus"
    /lab_host="DH10B"
    /note="Organ: brain; Vector: pBluescriptR (modified
    pBluescript KS+); Site.1: BamHI; Site.2: SalI-XhoI (gtcgag
    ); Oligo-dT primed using primer 5'-TTTTTTTTTTTTTTVN-3',
    size-selected for average insert size 2.5 kb and
    normalized to R0T 5. This is a primary library enriched
    for full-length clones and constructed using the
    Cap-trapper method (Carninci, in preparation). Library
    constructed by M. Brownstein (NHGRI/NHGR), National
    Institutes of Health). Note: this is a NIH-MGC Library."
BASE COUNT      172 a      160 c      140 g      108 t
ORIGIN
Query Match      47.9%; Score 494.8; DB 10; Length 580;
Best Local Similarity 99.2%; Pred. No. 4.5e-123;
Matches 518; Conservative 0; Mismatches 2; Indels 2; Gaps 2;
QY      1 atgaaacatccagcaaaatgcaaatctatctcttgggcaatcttcaggggctg 60
      60 atgaaacatccagcaaaatgcaaatctatctcttgggcaatcttcaggggctg 119

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Tissue Procurement: DCTD/DTF
 CDNA Library Preparation: Ling Hong/Rubin Laboratory
 CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLCM1921 row: 1 column: 16
 High quality sequence stop: 659.

FEATURES

Location/Qualifiers
 1..661

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:5443743"
 /clone_lib="NIH_MGC_41"
 /tissue_type="amelanotic melanoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: skin; Vector: pOT7; Site: 1: XhoI; Site 2:
 EcoRI; CDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

BASE COUNT 190 a 175 c 171 g 125 t
 ORIGIN

Query Match

Best Local Similarity 93.9%; Score 462; DB 10; Length 661;
 Matches 505; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

QY 528 ggttgcttcttgagtgaggaacgaacttggaattcaggagcaccgggagcagtc 587
 |||||||
 Db 1 GGTGGCTTTGTGAGTGAAGACGAATACTGGAAATTACAGGCATCACCCGGAGCAGTC 60
 QY 588 aggggactaagagtgacgtgctcccaatgaagtgccgcccgtgtgtacggagtaaa 647
 |||||||
 Db 61 AGGGGACTACAGAGTGCAGTCCCTCCATGACGTGCGCCGCGGTGTACGGAGATGAA 120
 QY 648 ggtcacgctgaactatccaccatatactcagaagaacgaaggtacaggtgtcccgctgg 707
 |||||||
 Db 121 GGTACCGGTGAACATATCCACCATACATTTTCAAGAACCAAGGATACAGTGTCCCGTGG 180
 QY 708 acaaaaggagacactgcaatggtgaagcctcagcagtcacctcagcagaattccagtgtga 767
 |||||||
 Db 181 ACAAAAGGGGACACTGCAGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGTGTA 240
 QY 768 caagatgacaaagactgattgaagaaagaaggggtgaaggtgaagaagaagccttt 827
 |||||||
 Db 241 CAAGGATGACAAAAGACTGATTAAGGAAAGAAAGGGGTGAAGTGAAGAACAGACCTTT 300
 QY 828 ccttcacaaactatcttcttcaatgtctgaacatgaactatggaactacacttgct 887
 |||||||
 Db 301 CCTCTCAAAACTCATCTTCTTCAATGTCTCTAATGATGATGAGAACTACACTTGGGT 360
 QY 888 ggtccctcaacaagaactggtgacacaaatgcagactatgtatattt----- 933
 |||||||
 Db 361 GGCCTCAACAAGCTGGGGCCACACCAATGCCAGCATATGCTATTGTAAGTGAAGAACTAC 420
 QY 934 -----ggtccagggccgtcagcaggttgaggaagcagcaggttcag 974
 |||||||
 Db 421 AGCCCTGACCCCTTGGAAGAGGTCCAGGCGCCCTCAGCAGGTGAGCAACGGCAGTCGAG 480
 QY 975 gaaggagagctgagcttgcgtgctcttccttcgttcgttcagcctgttcacattt 1032
 |||||||
 Db 481 GAAGGCAAGGCTGCGTGTGCTGCTGCTTGTGCTTGTGCACTGCTTGTCAAAATT 538

RESULT 10
 BM423716 953 bp mRNA linear EST 29-JAN-2002
 LOCUS BM423716

DEFINITION

AGENCOURT_6398987 NIH_MGC_41 Homo sapiens CDNA clone IMAGE:5516929
 5' mRNA sequence.

ACCESSION

BM423716
 BM423716.1 GI:18391928

VERSION

EST.

KEYWORDS

human.

SOURCE

human.

ORGANISM

human.

REFERENCE

1 (bases 1 to 953)

AUTHORS

NIH-MGC

TITLES

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

Unpublished (1999)

COMMENT

Contact: Robert Strausberg, Ph.D.
 Email: rgs@pilot.nih.gov

Tissue Procurement: DCTD/DTF

CDNA Library Preparation: Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>

Plate: LLCM2018 row: f column: 02

High quality sequence start: 10

High quality sequence stop: 571.

Location/Qualifiers

1..953

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:5516929"
 /clone_lib="NIH_MGC_41"
 /tissue_type="amelanotic melanoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: skin; Vector: pOT7; Site: 1: XhoI; Site 2:
 EcoRI; CDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

BASE COUNT 278 a 211 c 256 g 201 t 7 others
 ORIGIN

Query Match

Best Local Similarity 93.9%; Score 462; DB 10; Length 953;
 Matches 505; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

QY 528 ggttgcttcttgagtgaggaacgaacttggaattcaggagcaccgggagcagtc 587
 |||||||
 Db 26 GGTGGCTTTGTGAGTGAAGACGAATACTGGAAATTACAGGCATCACCCGGAGCAGTC 85
 QY 588 aggggactaagagtgacgtgctcccaatgaagtgccgcccgtgtgtacggagtaaa 647
 |||||||
 Db 86 AGGGGACTACAGAGTGCAGTCCCTCCATGACGTGCGCCGCGGTGTACGGAGATGAA 145
 QY 648 ggtccctcaacaagaactggtgacacaaatgcagactatgtatattt----- 707
 |||||||
 Db 146 GGCCTCAACAAGCTGGGGCCACACCAATGCCAGCATATGCTATTGTAAGTGAAGAACTAC 205
 QY 708 acaaaaggagacactgcaatggtgaagcctcagcagtcacctcagcagaattccagtgtga 767
 |||||||
 Db 206 ACAAAAGGGGACACTGCAGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGTGTA 265
 QY 768 caagatgacaaagactgattgaagaaagaaggggtgaaggtgaagaagaagccttt 827
 |||||||
 Db 266 CAAGGATGACAAAAGACTGATTAAGGAAAGAAAGGGGTGAAGTGAAGAACAGACCTTT 325
 QY 828 ccttcacaaactatcttcttcaatgtctgaacatgaactatggaactacacttgct 887
 |||||||
 Db 326 CCTCTCAAAACTCATCTTCTTCAATGTCTCTAATGATGATGAGAACTACACTTGGGT 385

QY 290 agtacagcatcgagatccagaacgtgtatgtatgacgagggcccttacacctgcgg 344
|||||

Query Match	44.18;	Score 455;	DB 10;	Length 979
Best Local Similarity	86.38;	Pred. No. 3.5e-112;		

size-selected for average insert size 2.3 kb and
normalized to ROT 5. This is a primary library enriched
for full-length clones and constructed using the
Cap-trapper method (Carinci, in preparation). Library
constructed by M. Brownstein (NIMH/NHGRI, National
Institutes of Health). Note: this is a NIH_MGC Library."

BASE COUNT 194 a 164 c 148 g 127 t
ORIGIN

Query Match

41.0%; Score 423.2; DB 10; Length 633;

Best Local Similarity 98.9%; Pred. No. 1.1e-103;

Matches 447; Conservative 0; Mismatches 3; Indels 2; Gaps 2;

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QY 1 atgaacacccaccccaaaatgacaaattctatctcttgggaattcttcaagggctg 60
Db 183 ATGAAACCATCCAGCCAAAATGCACATTCATCTCTTGGGCAATCTCACGGGCTG 242
QY 61 gctgctctgtctcttccaaggagtgccggtgagcgagatgacaccttcccaaa 120
Db 243 GCTGCTCTGTCTCTTCCANAGGAGTGCCTGTGGCAGCGGAGATGCCACTTCCCAA 302
QY 121 gctatggacaacgltgacgggtccggaaggaggagcgacacctagtgacattgac 180
Db 303 GCTATGGACAACGTGACGGTCCGGCAGGGGAGAGCGCCACCTCAGGTGACATTGAC 362
QY 181 aaccgggtcacccgggtggcctggttaaacgcagacacacacctatgctggaatgac 240
Db 363 AACCCGGTCAACCCGGGTGGCTGCTAAACCGCAGACACCTCTATGCTGGGAATGAC 422
QY 241 aagtggtgacctggaatcctcggtggtccttctggaacaacccaacgagtagacatc 300
Db 423 AAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 481
QY 301 gagatccagaacgtggaatgtatgacgaaggcccttacacctgctcggtgacagacag 360
Db 482 GAGATCCAGAACGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 541
QY 361 aacacccaagaaccttaggttcaacctcttctgcaagtatctcccaaat-tgtaga 419
Db 542 AACACACCAAGACCTCTAGGGGTCCACCTCATGTGCAAGTATCTCCAAAATAGGTAGA 601
QY 420 gattcttcagatatctccatlaatgaaggga 451
Db 602 GATTCTTCAGATATCTCCATTAATGAAGGA 633
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Search completed: July 11, 2002, 21:28:00

Job time: 10359 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:51:36 ; Search time 4995.85 Seconds
(without alignments)
7091.611 Million cell updates/sec

Title: US-09-700-397-2
Sequence: 1693
1 giccttcagcaaacagctg.....aaaaaaaaaaaaaaaa 1693

Scoring table: IDENTITY-NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

GenBank! :
1: gb_ba : *
2: gb_hlg : *
3: gb_in : *
4: gb_om : *
5: gb_ov : *
6: gb_pat : *
7: gb_ph : *
8: gb_pl : *
9: gb_pr : *
10: gb_ro : *
11: gb_sts : *
12: gb_sy : *
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16: em_fun : *
17: em_hum : *
18: em_in : *
19: em_mu : *
20: em_om : *
21: em_or : *
22: em_ov : *
23: em_pat : *
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25: em_pl : *
26: em_ro : *
27: em_sts : *
28: em_un : *
29: em_vi : *
30: em_hlg_hum : *
31: em_hlg_inv : *
32: em_hlg_other : *
33: em_hlg_inv : *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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1	1440.2	85.1	1839	9	AF126426	AF126426 Homo sapi
2	1002.2	59.2	2040	10	RN016845	U16845 Rattus norv
3	912.2	53.9	1410	10	AF282980	AF282980 Mus muscu
4	643.8	38.0	1058	8	AF292935	AF292935 Gallus ga
5	641.8	37.9	1257	5	GGCEP01	Z72497 G.gallus mr
6	638.2	37.7	1035	5	AB01810	AB01810 Gallus ga
7	623.6	36.8	1638	12	AF271233	AF271233 Synthetic
8	619.8	36.6	190864	2	AP004248	AP004248 Homo sapi
9	618.2	36.5	202505	2	AP000912	AP000912 Homo sapi
10	616.6	36.4	184716	2	AC018368	AC018368 Homo sapi
11	604.8	35.7	1013	5	AF292936	AF292936 Gallus ga
12	603.8	35.7	187203	2	AP000832	AP000832 Homo sapi
13	571.2	33.7	1533	5	FFN1H55A	Y08170 Gallus gall
14	551.8	32.6	1556	4	BT0BCAM	AF292934 Gallus gall
15	545.4	32.2	2593	4	AF292934	AF292934 Gallus gall
16	540.8	31.9	3069	9	RATCALMA	AF292934 Gallus gall
17	539.2	31.8	1478	9	HIM0BCAM	AF292934 Gallus gall
18	523	30.9	2179	10	RATCALMB	AF292934 Gallus gall
19	523	30.9	2337	10	RATCALMC	AF292934 Gallus gall
20	465.2	27.5	2935	12	AF271618	AF271618 Rattus norv
21	465.2	27.5	3216	5	GGCEPUS	AF271618 Rattus norv
22	435.4	25.7	756	12	AF271232	AF271232 Synthetic
23	430.2	25.4	452	6	AX079423	AX079423 Sequence
24	362	21.4	1107	5	GGAMP9	294720 G.gallus mr
25	359.2	21.2	1158	5	GGAMP19	294720 G.gallus mr
26	357.6	21.1	2050	5	GGI19SPRO	Y08171 Gallus gall
27	348.4	20.6	1194	5	GGAMP11	294719 G.gallus mr
28	343	20.3	1238	6	AR030575	AR030575 Sequence
29	343	20.3	1238	10	RN031554	U31554 Rattus norv
30	340.6	20.1	924	6	AR030579	AR030579 Sequence
31	340.6	20.1	977	6	AR030574	AR030574 Sequence
32	340.6	20.1	1014	6	AR030577	AR030577 Sequence
33	340.6	20.1	1017	9	HSU41901	U41901 Human limb1
34	338.6	20.0	861	6	AR030581	AR030581 Sequence
35	338.6	20.0	912	6	AR030578	AR030578 Sequence
36	337.4	19.9	945	6	AR030580	AR030580 Sequence
37	333.8	19.7	861	6	AR030582	AR030582 Sequence
38	303.6	17.9	756	6	AR030589	AR030589 Sequence
39	298.2	17.6	756	6	AR030590	AR030590 Sequence
40	280.4	16.6	1059	5	GGAI32999	AJ132999 Gallus Ga
41	279	16.5	1809	10	AB017139	AB017139 Rattus no
42	256	15.1	257	11	G07361	G07361 human SRS W
43	238.4	14.1	42263	2	AP004721	AP004721 Homo sapi
44	235.6	13.9	203572	9	AC016769	AC016769 Homo sapi
45	209.4	12.4	152686	2	AC018913	AC018913 Homo sapi

ALIGNMENTS

RESULT 1
AF126426 1839 bp mRNA linear PRI 06-MAR-2000
DEFINITION Homo sapiens neurotrophin (NNT) mRNA, complete cds.
ACCESSION AF126426
VERSION AF126426.1 GI:7158997
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 1839)
Li, G., Jin, J., Tan, X., Hu, S., Yuan, J., and Qiang, B.
Cloning and identification of human neurotrophin full length cDNA
JOURNAL Unpublished
TITLE 2 (bases 1 to 1839)
AUTHORS Li, G., Jin, J., Tan, X., Hu, S., Yuan, J., and Qiang, B.
DIRECT SUBMISSION
JOURNAL Submitted (05-FEB-1999) Biochemistry, Institute of Basic Medical
Sciences, 5 Dong Dan San Tiao, Beijing 100005, PR China
FEATURES
SOURCE location/Qualifiers
1..1839
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265..1299
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/protein_id="AF37591.1"
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BASE COUNT 464 a 506 c 503 g 366 t
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VVRGSEATLRCITIDNRYTRVAMLRSTLLYAGNDWMLDPRVLLSTNTOYSIEI
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GRPEPTVMRHSIPKAVGSEDEYLEIOTREOSGDYSCSANDVAPVRRKYAT
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Query Match 85.1%; Score 1440.2; DB 9; Length 1839;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1472; Conservative 0; Mismatches 3; Indels 20; Gaps 1;

QY 210 aggaatgcccgtgcaagcagagatgacacccctcccaagaagatgacacagctgacgt 269
DB 345 AGGAGTGCCTGCGCGAGGAGATGCCACTTCCCAAGCTATGAGCAACGTGACGT 404
QY 270 ccggcaggggagagcgcacacccctcagctgacatctgacacccgggtccacgggtgac 329
DB 405 CCGGAGGGGAGAGCGCACCCCTCAGGTGACATTTGCAACCCGGGTGACCCGGGTGAC 464
QY 330 ctggttaaccgagacacatctctctgctggagatgacagtgctgctggatctctg 389
DB 465 CTGGCTAACCGACGACCATCTCTATGCTGGGAATGACAAAGTGTCTGGATCTCG 524
QY 390 cgtgctcctctgac 449
DB 525 CGTGCTCTCTGAGCAACACCCCAACGATGACGATGACGATGACGATGACGATGAC 584
QY 450 gtaagcagagggcccttaccacacacacacacacacacacacacacacacacacacac 509
DB 585 GTATGAGAGGAGGCGCTTACACCTGCTGTCGACAGACACACCCCAAGACCTCTAG 644
QY 510 ggtcacccatctgcaagatctcccaaaattgtagagattcttcaatctccat 569
DB 645 GGTCCACCTCATTTGTCAAGTATCTCCCAAAATTGTAGATTTCTTCAGATATCTCAT 704
QY 570 taatgaaggaacaataattagcctcactgcatagcaactgtagacagagcctacgt 629
DB 705 TAATGAAGGGACAAATATTAGCTCAGCTGATGCAACTGCTAGACGAGCTACGCT 764
QY 630 taattgagagacacatctctccaaagcgttggtgttgagtgaggaagcaatcttga 689
DB 765 TACTTGAGAGACATCTCTCCCAAGCGGTTGGCTTTGTAGTGAAGAGGATATCTTGA 824
QY 690 aatcagagcaccacccgggagcagctcagggagactcagagtgagtgagtcctcaatgac 749
DB 825 AATTGAGGGCATCACCCGGGAACACTAGGGGACTAGAGTGAAGTGGCTCCATGACGT 884
QY 750 ggcgcgcgcgtgtagcagagtaaggtacacgtgaactcacaatcattcaga 809
DB 885 GCGCCCGCGCGGTGACGAGAGTAAAGGTACCGCTGAACTATCCACATACATTTGAGA 944
QY 810 agccaaggtacagaggtctcccccgtgagcaaaagggagacacacacacacacacacac 869
DB 945 AGCCAGGGGTACAGGTGTCGCCGTGGGACAAAGGAGACATCTCAGTGAAGCTCAGC 1004
QY 870 agtccctcagcagaatccagtgtagaagagagacacacacacacacacacacacacacac 929
DB 1005 AGTCCCGTCAGAGAAATTCAGTGTACAGGATGACAAAGAGCTATTTGAAGGAAGAA 1064

QY 930 aggggtgaagtggaacacagacccttccctcacaactcattcttccatgctctga 989
DB 1065 AGGGGTGAAGTGAAGAAAGACACCTTCCCTCOTCAAAACATCATCTCTTCAATGCTCTGA 1124
QY 990 acatgactatgggaactacactgctggtgctccacaagctggtgacacacacacacacacac 1049
DB 1125 ACATGACTATGGAAGTACACTTGGCTGGCTCCCAACAGCTGGGACACACCAATGCCAG 1184
QY 1050 cataatcatttgggtccagggcgccgtcagagaggtgagcaacagcagcgtcagagagggc 1109
DB 1185 CATATCTCTATTGGTCCAGGCGCGGTGAGGAGTGAACAGGACGCTGAGAGAGGCG 1244
QY 1110 aggtgtgctggtgctgctcctctcctgcttctgacacacacacacacacacacacacac 1169
DB 1245 AGGTGCGTGTGGCTGCTGCTCTCTCTGTTGCTTGCACCTGCTTCAATTTGATGTGA 1304
QY 1170 gtgcacctcccccacccgggaaaggctgcgcgacacacacacacacacacacacacac 1229
DB 1305 GTGCCACTTCCCGCCCGGAAAGGCTGCCCGCACACACACACACACACACATG 1364
QY 1230 gcaacaccgacgac 1289
DB 1365 GCAACCCGACACACACACATGATATATATCAATGAAATTTGAGAAACACACGCTCA 1424
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QY 1350 aagaatgaaatattgctcctgtagatattagtgacaaatggagtttcttcccaacg 1409
DB 1485 AAGAAATTTGAATAATTCCTTGCAGATTTAGTATGATGATGATTTCTTTCCCAACG 1544
QY 1410 ggaagaacacagac 1469
DB 1545 GGAAGAAC 1604
QY 1470 tgcagtggtggaagggctcagcctctctgcccacagagtgccccagtggaacatc 1529
DB 1605 TCCAGTGTGGGCAAGGCTCAGCTCTCTCCACAGACTGCCCCACAGTGAACATTC 1664
QY 1530 tggagctggccatcccaatcaatcaatcaatcaatcaatcaatcaatcaatcaatcaat 1582
DB 1665 TGGAGCTGGCCATCCCAATTCATCACTGATGAGACCAACAGATGATGAGCTTCGCG 1724
QY 1583 -----cttcggcccaagcgtggtgctggtggtggtggtggtggtggtggtggtggt 1629
DB 1725 CCAAGCTGGCGGTTCCGCCCCAAGCGTGGCGCTGGGGCACTTTGTAAGCTGTGCA 1784
QY 1630 ccaagcgtgtgtgtgaaagtgaataaagaagcaaaaaaataaaaaa 1684
DB 1785 CCACGCGCTGTGTGTGAACGTGAATTAAGCAAGCAAAAAAATAAAAAA 1839

RESULT 2
RNT16845
LOCUS RNT16845 2040 bp mRNA linear ROD 26-MAY-1995
DEFINITION Rattus norvegicus neurotrophin mRNA, complete cds.
ACCESSION U16845
VERSION U16845.1 GI:755184
KEYWORDS
SOURCE Norway rat.
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 2040)
AUTHORS Struyk,A.F., Canoll,P.D., Wolfgang,M.J., Rosen,C.L., D'Bustachio,P.
and Salzer,J.L.
TITLE Cloning of neurotrophin defines a new subfamily of differentially
expressed neural cell adhesion molecules
JOURNAL J. Neurosci. 15 (3), 2141-2156 (1995)
MEDLINE 95198094
REFERENCE 2 (bases 1 to 2040)

JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1410)
 AUTHORS Kim, T.H., Choi, S.C., Kim, J., Jeon, J.W., Kim, K.D. and Lee, S.H.
 TITLE Direct Submission
 JOURNAL Submitted (27-JUN-2000) Graduate School of Biotechnology, Korea University, 1.5-Ka Anam-dong Sungbuk-ku, Seoul 136-701, Korea

FEATURES
 Location/Qualifiers
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 /codon_start=1
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BASE COUNT 369 a 365 c 368 g 308 t
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Query Match 53.9%; Score 912.2; DB 10; Length 1410;
 Best Local Similarity 84.6%; Pred. No. 3.3e-221;
 Matches 1135; Conservative 0; Mismatches 183; Indels 23; Gaps 9;

QY 210 aggaatgcccgtgacgagcagagatgcacacttcccaaaagatagacaacgtgacgt 269
 DB 81 AGAGATGCGCGTCTGAGGAGATGCTACCTTCCCAAGGTAGACACAGTGACGT 140

QY 270 ccggcaggggagagcgcacccctcaggtgactatgcaacccgggtccaccgggtgac 329
 DB 141 CAGCAGGGGGAGAGCGCACCTCAGTGCACAAATTGACAAACCGAGTCACCCGGGTGGC 200

QY 330 ctggctaaccgcagacacatcctctatgctgggaatggaagtgagtgctgagtcctg 389
 DB 201 CTGGCTAAACCGACATGACATCCCTATGCTGGAAATGACAAAGTGGTCTCTAGATCTCG 260

QY 390 cgtgctcctctgagcaacacccaaacgcagtcacgacatcgatccagaacgtgagtg 449
 DB 261 TGTGTCCTCTGAGTACACCCAGACCCAGTACAGCATTTGAGATTCAGATGGATGGATG 320

QY 450 gtatgaagagggcccttaacactgtctggtgcagagacagaccccccagaagaccttag 509
 DB 321 GTACGATGAGGGCCCTTATACCTCTCGGTACGATGACAAATGACACCTTACGACCTTCAG 380

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 DB 381 GGTCCACCTCATTTGTACAAAGTATCTCCCAAAATGTAGAGATTTCTTACATATCTCAT 440

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 DB 441 TAATGAAGGGACAAACATCAGCTCCTACCTGATAGACCAAGTACGCGGAGCTTACAGT 500

QY 630 tacttgagacacatctctcccaaacgagttgcttggatgaagagcagatcttgga 689
 DB 501 AACCTGGAGACATATTTCTCCCAAGGCCGTTGGCTTTGAGATGAGATGAGTACTCTGCA 560

QY 690 aatcagggcatccaccggagcagtcagggagactacaggttcagatgctccaatgacgt 749
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QY 750 ggcgcgcgcggtggtacgagagatgaagttccacctgaaactatccacatattcaga 809
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QY 810 agccaaggtacagtggtcccggtggagcaaaagggagacatgagtgtagcctcagc 869
 DB 681 AGCTAAAGGCACAGGTGTCCCGTGGGACAGAGGGAGCTGCAGTGTGAAGCTTCGCG 740

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 DB 741 AGTCCCTTCAGCAGAAATTTCAATGGTTCAAGAGTGAAGAAAGACGTGGAAGGAAAGAA 800

QY 930 aggggttaagtggaagacagacacttccctccaaactccatcttcacatgtctcga 989
 DB 801 GGGAGCTAAAGTGGAAACAGACCTTCTCTTTCAAAMATCACCCTTTTCAACAGCTCTGA 860

QY 990 aacatgactatgggaactacactgctggtggtccccaagaagctgggccaacccaatgacag 1049
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QY 1110 agctgctgtctgctgctcctctcgtgtctgacacgtgcttccaaatttgatgta 1169
 DB 981 AGCTGATTTGGCT 1040

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 DB 1041 GTGCCCTTCT 1097

QY 1230 gcaacaccgacgac 1289
 DB 1098 -----CAAAATGAGCAACAGTCAATCAATCAATCAATCAATCAATCAATCAATCAATCAATCA 1149

QY 1290 tggagcaaaatttgagggagggaggaacaaagaatactt-----gggggggaaaaaagt 1343
 DB 1150 TGAGCAGAAATTCAGAGGAGGAGGAGCAACCGTACTGATGATGAAGGGGAAAAAAGGT 1209

QY 1344 ttaaaaaa---gsaattgaanaattgcttcagatattagttacaatgaggtttcttt 1400
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QY 1401 -tcccaaacgggaggaacagac 1458
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QY 1459 aacctctgtgtcaggtgtggcaagggctcagcctctctgtccac-agaatgcccaca 1517
 DB 1330 GACCTCTGTGTGCGCAGGGGTGGCAAGGCTCACCTCTGCCCCCTTAAGTGGCCCAAC 1389

QY 1518 cgtggaacattctggagctgg 1538
 DB 1390 CATGGAACATTCGTGAGTGG 1410

RESULT 4
 AF292935 1058 bp mRNA linear VRT 24-AUG-2000
 LOCUS AF292935
 DEFINITION Gallus gallus CEPU-Se alpha 2 isoform (CEPU-Se) mRNA, complete cds.
 ACCESSION AF292935
 VERSION AF292935.1 GI:9887384
 KEYWORDS
 SOURCE chicken.
 ORGANISM Gallus gallus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus.
 REFERENCE 1 (bases 1 to 1058)
 AUTHORS Lodge, A.P., McNamee, C.J., Howard, M.R., Reed, J.E. and Moss, D.J.
 TITLE Characterisation of CEPU-Se, a secreted isoform of the Igfbn family protein CEPU-1
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1058)
 AUTHORS Lodge, A.P. and Moss, D.J.

563 CGCCCAAGCTGTGGGCTTATCAGCGAGACGAGTACCTCGAGATCACAGGCATCCGA 622

IPF11SDANSIGVEVGNGILMLGCBAYTCHDZVTHADZLWZLHJGKQZNYTHWZ
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RGSCWMTIPIAOTAPOF*

mat_peptide

BASE COUNT 297 a 386 c 360 g 214 t
ORIGIN

Query Match 37.9%, Score 641.8; DB 5; Length 1257;
Best Local Similarity 79.4%; Pred. No. 2.2e-152;
Matches 760; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

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118
59 GAAGAGGGGAGGACGACAGCTCCGAAATATGGCCAGGCGAAATGACGACCCGCTCT 118
167 ctgggaactctcaacggggctgctctgtctctctccaaagagtgccgtgagca 226
119 CATGGTGATCTTCGGCGGAGTGGCCGACTCTCTCTTCCAAAGATGGCCGTGGCA 178
227 gcgagagatgcacactccccaagatggaacagtgacagtgccggaaggagagcg 286
179 GCGAGATGCGACCTTCCCAAGCTATGACAACTGACTGCGCGCAAGGAGAGT 238
287 ccacctcaagtgacactatgaacacgggtccacgggtgacgtgagtaacggagca 346
239 CCAGCTCAGGTCTCTCGTGGACAAACGCGTCAACGCGTGGCTGGCTGACCGCAGCA 298
347 ccactctatgtctgggaatgaacagtgatgctgctgctgctgctgctgctgagca 406
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359 ACACCAAAACCCAGTACAGCATCCAGATCCAGACGCTGACCTGACATCAAGGCGCT 418
467 acactctctggtgacagagacaacaccccaaccccttaggtccactcatgtt 526
419 ACCTCTCTCTGCGAGACAGCAATACCCCAAGATCTGCTGCACTCTCTGCTG 478
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587 ttgactccactgcatagaactgtgtgacagagacgttactctggagacaact 646
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647 ctcccaacgcgtgtgctgtgtgagtaagacgaataactgaatcaaggaatccacc 706
599 CGCCCAAGCTGTGGGCTTCATCAGCGAGACGATACCTGGAGATCAAGGATCAAGA 658
707 gggagcagtcaggggaactagagtgacgtgacgtcccaatgacgtgacgtgac 766
659 GGGAGCATGTGGGCGAGTACGAGTCACTGCTCCAAACGCGCGGCTGTCTGCTCC 718
767 gggagataaaggtcacctggaactatccacatcatcttgaagaagaggttcaagtg 826
719 AGCGAGTCAAGTACCGGTCACTACCCACGTAATTTGGAGTGGAGAGCACCGGTG 778
827 tccccgtggacaagaaggagacactgacgtgtgagagcctgaagagtcctcccaagaat 886
779 TGGCGGTGGGAGAGAGGACATCTGATGTGAGAGCTCGGTGGCTCGCTGACT 838
887 tccagtgatacaagatgacaaagatgaltgaagaaagagaggtgaagtgaata 946
839 TCCAGTGTCAAGAGAGAGAGCGCGCTGTGAAGAGACAGAAAGGCGTGAAGTGAATA 898
947 aagagcttctctcaaaactcatcttcaatgctgctgagtaacatgagtaagact 1006
899 ACAAGCTTCTTCTCCGACACTGACTTCTTCAAGCTTCGAGCAGGATCAAGCAAT 958
1007 aacttggtgctcccaacagctggagccacacaaatgccaacatcatctatttg 1063
959 ACACTGCTGCTGCTCCCAACAGCAGTGAAGAACACCAAGCCACAGATGATCTTATG 1015

RESULT 6
AB011810 1035 bp mRNA linear VRT 09-JUL-1998
LOCUS
DEFINITION
Gallus gallus mRNA for CEPU-1, complete cds.
ACCESSION
AB011810
VERSION
AB011810.1 GI:3298455
KEYWORDS
alternative splicing; CEPU-1.
SOURCE
Gallus gallus
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus;
1 (bases 1 to 1035)
Kimura, Y., Shirabe, K. and Tanaka, H.
Direct Submission
Submitted (03-MAR-1998) Yoshihige Kimura, Kumamoto University
Graduate School of Medical Sciences, Division of Developmental
Neurobiology; 4-24-1 Kuhonji, Kumamoto, Kumamoto 862-0976, Japan
(E-mail: ykimura@po.kumamoto-u.ac.jp, Tel: 81-96-373-5294,
Fax: 81-96-373-5292)

REFERENCE
2 (sites)
Kimura, Y., Shirabe, K., Fukushima, M., Takeshita, M. and Tanaka, H.
CEPU-1: an Immunoglobulin Superfamily Molecule, Has Cell Adhesion
Activity and Shows Dynamic Expression Patterns in Chick Embryonic
Spinal Cord
Unpublished (1998)
Location/Qualifiers
1..1035
/organism="Gallus gallus"
/db_xref="taxon:9031"
1..1035
/note="alternative splicing product of CEPU1 gene; EMBL
Acc# Z72497; Spaltman, F. and Brendorf, T. (1996)
J. Neurosci. 16:1770-1779."
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HVDYVIDGPTCTCSVDNPKRSRYHLIVQSPKTFEISDISINNGVSLTQAT
GHRDPTITRHSIKRAVGTISEDEYLETITGTRDSGTECSANVYARVYORVKT
VNPVPIVDASTGVPVGGIIMCEASVPSADQWTKDKRLABSGKLYENKAT
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BASE COUNT 223 a 328 c 299 g 185 t
ORIGIN

Query Match 37.7%; Score 638.2; DB 5; Length 1035;
Best Local Similarity 79.3%; Pred. No. 1.7e-151;
Matches 757; Conservative 0; Mismatches 198; Indels 0; Gaps 0;

210 aggaagtcgcgtgcgaagcgagatgacaccttcccaaaagtatgaaagctgagct 269
81 AGGAGTGGCCCTGGCGAGGAGATGCCACCTTCCCAAGCATATGAGAACGTACTGT 140
270 ccggaaggggagagggcgacacccctcaagtgacattgaacaacgggtacaccgggtgc 329
141 GCGGCAAGGGAGAGTCCACGCTCAGGTGCTCCGTGGAAACCGGCTACCCGGGTGGC 200
330 ctggttaacgcgcagacacatctctatgcttggagatgataaagtgtgctgacccg 389
201 CTGGCTGAACCGCAGCAGCATCTCTATGCGGCAATGACAAAGTGTGCTTGAACCGAG 260
390 cgtgtctcttctggaacaccccaagcgagtaagatgataatcaagaagtgtgagt 449
261 GGTGTGTCTCTTGGCCAAACCAAAACCAAGATCAAGATCCAGATCCAGAGGTGAGCT 320
450 gttatgaagggcccttaacactgctgctgctgacagagacaacacaaagactctag 509
321 GTACGATGAGAGGCGCTACACCTGCTCGGTGACAGACGACATACCCCAAGACATCTCG 380

Db	666	CATTCGSAATGCCAAGACACCCGCTGTGCCGTGGGGACAGAAAGGSCATCCTGATGTGTGA	725
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Db	726	AGCCTCCGCTGTGCTCCCTCTGTGCATCTTCAGTGTGTCACAAAGACGCAAGAGCGCGCTGACTGA	785
Qy	921	aggaagaagaagggttgaagvtgaaaaagagaccttccttcctaataacatctctctcaaa	980
Db	786	AGGACAGAAAGAGGCTGAAGGTGTGAAACAAAGCCTTCTTCTCCGACCTGACTTTCTTCCAA	845
Qy	981	tgtcctcgaacatgactatgtgggaactaacacttgctgtgacctcaacaagctctggcaccac	1040
Db	846	CGTCCGACGAGAGGACGTACGGCACTACACCTGGGTGGCGCTCAACACAGGGAGATCACCG	905
Qy	1041	caatgcagcatcatgct	1058
Db	906	GGCGGTGCCGCACCATGCT	923
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LOCUS	AP004248/c	190864 bp	Linear HTG 13-OCT-2001
DEFINITION	Homo sapiens chromosome 11 clone RP11-709M17 map 11p, WORKING DRAFT		
ACCESSION	AP004248		
VERSION	AP004248.1	GI:16117845	
KEYWORDS	HTG; HTGS PHASE1; HTGS DRAFT.		
SOURCE	Homo sapiens DNA, clone:RP11-709M17.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.		
AUTHORS	1 (bases 1 to 190864)		
TITLE	Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Tokoki,Y., Watanabe,H. and Sakaki,Y.		
REFERENCE	Homo sapiens genomic DNA of 11q		
AUTHORS	Published only in database (2001) In press		
TITLE	2 (bases 1 to 190864)		
REFERENCE	Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Tokoki,Y., Watanabe,H. and Sakaki,Y.		
AUTHORS	Direct Submission		
TITLE	Submitted (12-OCT-2001) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); 1-7-22 Shohiro-chou, Tsunumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:hattori@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/ Tel:81-45-503-9111, Fax:81-45-503-9170)		
COMMENT	Genome Center		

* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

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1 26097: contig of 26097 bp in length
* 26098 26197: gap of 100 bp
* 26198 48570: contig of 22373 bp in length
* 48571 48670: gap of 100 bp
* 48671 65250: contig of 16580 bp in length
* 65251 65350: gap of 100 bp
* 65351 78415: contig of 13065 bp in length
* 78416 78515: gap of 100 bp
* 78516 91388: contig of 12873 bp in length
* 91389 91488: gap of 100 bp
* 91489 102970: contig of 11482 bp in length
* 102971 103070: gap of 100 bp
* 103071 112373: contig of 9303 bp in length
* 112374 112473: gap of 100 bp
* 112474 123106: contig of 10633 bp in length
* 123107 123206: gap of 100 bp
* 123207 133003: contig of 9797 bp in length
* 133004 133103: gap of 100 bp
* 133104 142050: contig of 8947 bp in length
* 142051 142150: gap of 100 bp
* 142151 150046: contig of 7896 bp in length
* 150047 150146: gap of 100 bp
* 150147 156216: contig of 6070 bp in length
* 156217 156316: gap of 100 bp
* 156317 161217: contig of 4901 bp in length
* 161218 161317: gap of 100 bp
* 161318 166766: contig of 5359 bp in length
* 166767 166776: gap of 100 bp
* 166777 171521: contig of 4745 bp in length
* 171522 171621: gap of 100 bp
* 171622 175750: contig of 4129 bp in length
* 175751 175850: gap of 100 bp
* 175851 178697: contig of 2847 bp in length
* 178698 178797: gap of 100 bp
* 178798 183879: contig of 5082 bp in length
* 183880 183979: gap of 100 bp
* 183880 186686: contig of 2707 bp in length
* 186687 186786: gap of 100 bp
* 186787 188509: contig of 1723 bp in length
* 188510 188609: gap of 100 bp
* 188510 191328: contig of 2719 bp in length
* 191329 191428: gap of 100 bp
* 191429 193900: contig of 2472 bp in length
* 193901 194000: gap of 100 bp
* 194001 195695: contig of 1695 bp in length
* 195696 195795: gap of 100 bp
* 195796 197675: contig of 1880 bp in length
* 197676 197775: gap of 100 bp
* 197776 198652: contig of 877 bp in length
* 198653 198752: gap of 100 bp
* 198753 199845: contig of 1093 bp in length
* 199846 199945: gap of 100 bp
* 199946 200982: contig of 1037 bp in length
* 200983 201082: gap of 100 bp
* 201083 202505: contig of 1423 bp in length.
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FEATURES

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/db_xref="taxon:9606"
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/clone="RP11-715K6"
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197776. .198652
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Query Match 36.5% Score 618.2; DB 2: Length 202505;
Best Local Similarity 98.7%; Pred. No. 5.7e-146;
Matches 623; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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DB 143589 GGTCCAGGCCCGTCACGACAGGTGACACGCGACGTCAGAGGGCAGGCTCTGG 143530
QY 1123 ctgctgcctctctgcttctgcaactgcttccaatttgatgtagtgccattccc 1182
DB 143529 CTGCTGCCTCTCTGCTTCTGCACTGCTTCTCAATTTTGATGTGAGTGCACCTCC 143470
QY 1183 acccggaagagctgcgcgcaccaccaccaccacacacgaatggaacacgcagacg 1242
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QY 1243 caaccaatcagatatatacaaatgaatgaagaacacacagcctcatggtgacagaaat 1302
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QY 1303 tgaaggaggggaacaaagaatacttggggggaagaattttaaaaaagaattgaa 1362
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QY 1363 ttgccttcagatatattaggtacatgtaggtttcttcccaacgaggaacacagc 1422
DB 143289 TTGCCTTCAGATATTTAGGTACAAATGAGATTCTTCTTCCCAAGGGGAGACACACG 143230
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QY 1423 aaaccggcttgaccacactgcaagctgcatgctgcaaccttggatgacagtgtgccc 1482
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 QY 1483 aagggtcagccctctctgcccacagatgcccacagtggaacattctgtgagcttggccat 1542
 Db 143169 AAGGGCTCAGCCTCTCTGCCCCACAGAGTGGCCACGTGGAACTTGGAGCGCGGCAT 143110
 QY 1543 cccaattcaatcagtcacatagagacagatgagaccttcgcgcacagcgtgagc 1602
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RESULT 10
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 LOCUS
 DEFINITION Homo sapiens chromosome 11 clone RP11-29L13 map 11, WORKING DRAFT
 AC018368
 AC018368.4 GI:7523732
 VERSION
 KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
 SOURCE
 ORGANISM
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 184716)
 Biren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N.,
 Anderson,S., Baldwin,J., Barna,N., Beckert,J., Bida,F.,
 Boguslavskiy,L., Boukhalter,B., Brown,A., Castle,A., Colangelo,M.,
 Collins,S., Collymore,A., Cooke,P., Deaellano,K., Dewar,K.,
 Domino,M., Doyle,M., Feneator,J., Ferreira,P., FitzHugh,M.,
 Forrest,C., Gage,D., Galagan,J., Gardyna,S., Grant,G., Hagos,B.,
 Heatford,A., Horton,L., Howland,J.C., Johnson,R., Jones,C., Kann,L.,
 Karatals,A., Klein,J., Landers,T., Lehoczy,J., Lieu,C., Locke,K.,
 Macdonald,P., Marquis,N., McEwan,P., McGuirk,A., McKernan,K.,
 Meidrim,J., Morrow,J., Naylor,J., Norman,C.H., O'Connor,T.,
 O'Donnell,P., Peterson,K., Pierre,N., Pollara,V., Riley,R.,
 Rothman,D., Roy,A., Santos,R., Severy,P., Stange-Thomas,N.,
 Stojanovic,N., Sudremanian,A., Talamas,J., Tesfaye,S., Theodore,J.,
 Tirelli,A., Vassiliev,H., Viel,R., Vo,A., Wu,X., Wyman,D., Ye,W.J.,
 Zimmer,A. and Zody,M.
 Direct Submission
 Submitted (10-DEC-1999) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 On Apr 7, 2000 this sequence version replaced gi:6649510.
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html
 ----- Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIBR
 Web site: http://www-seq.wi.mit.edu
 Contact: sequence_submissions@genome.wi.mit.edu
 ----- Project Information
 Center project name: L134
 Center clone name: 29.L13

----- Summary Statistics
 Sequencing vector: M13; M7815; 100% of reads
 Chemistry: Dye-terminator Big Dye; 100% of reads
 Assembly program: Phrap; version 0.960731

FEATURES

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 1203. 2255
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 2356. 3745
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 3846. 9078
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 125128 184716: contig of 59589 bp in length.
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 Insert size: 183516; sum-of-contigs
 Quality coverage: 4.6 in Q20 bases; agarose-fp
 Quality coverage: 4.4 in Q20 bases; sum-of-contigs
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 13 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 1 1102: contig of 1102 bp in length
 1103 1202: gap of 100 bp
 1203 2255: contig of 1053 bp in length
 2256 2355: gap of 100 bp
 2356 3745: contig of 1390 bp in length
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 3846 9078: contig of 5233 bp in length
 9079 9178: gap of 100 bp
 9179 16020: contig of 6842 bp in length
 16021 21744: gap of 100 bp
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 21845 29796: contig of 7952 bp in length
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[illegible]

TITLE	Characterisation of CEPV-Se, a secreted isoform of the Igon family protein CEPV-1
JOURNAL	Unpublished
REFERENCE	2 (bases 1 to 1013)
AUTHORS	Lodge, A.P. and Moss, D.J.
TITLE	Direct Submission
JOURNAL	Submitted (04-AUG-2000) Human Anatomy and Cell Biology. The
3GE, UK	University of Liverpool, Ashton Street, Liverpool, Merseyside L69

JOURNAL

REFERENCE 2 (bases 1 to 1013)

AUTHORS Lodge, A. P. and Moss, D. J.

TITLE

JOURNAL
Submitted (04-AUG-2000) Human Anatomy and Cell Biology, Inc
University of Liverpool Ashton Street Merseyside L69

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ORIGIN				

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Best Local	Similarity	81.7%	Pred. No. 5.5e-143		
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				Gaps	0
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----- Genome Center
Center: RIKEN Genomic Sciences Center(GSC)
Center code: RIKEN
Web site: http://hgp.gsc.riken.go.jp/
Contact: hatorilegsc.riken.go.jp
----- Project Information
Center project name: HumDrafi1
Center clone name: RP11-803P2
----- Summary Statistics
Sequencing vector: PCR products; 100% of reads
Chemistry: Dye-terminator ET-amersham; 100% of reads
Assembly program: Phrap; version 0.990329
Consensus quality: 171133 bases at least Q40
Consensus quality: 178533 bases at least Q30
Consensus quality: 182303 bases at least Q20
Insert size: 184603; sum-of-contigs
Quality coverage: 4.41x in Q20 bases; sum-of-contigs

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1	30966	contig of	30966	bp	in	length	
2	54248	contig of	23186	bp	in	length	
3	54349	contig of	13827	bp	in	length	
4	68976	78752	contig of	10477	bp	in	length
5	78853	88975	contig of	10123	bp	in	length
6	89076	98751	contig of	9676	bp	in	length
7	98552	107804	contig of	8953	bp	in	length
8	107905	126568	contig of	8460	bp	in	length
9	116465	125584	contig of	9094	bp	in	length
10	125659	130702	contig of	5044	bp	in	length
11	130801	135910	contig of	5108	bp	in	length
12	136011	142273	contig of	6263	bp	in	length
13	1429874	149281	contig of	6908	bp	in	length
14	1493872	155493	contig of	6112	bp	in	length
15	155594	161282	contig of	5689	bp	in	length
16	161383	165649	contig of	4267	bp	in	length
17	165750	169554	contig of	3805	bp	in	length
18	169655	170397	contig of	743	bp	in	length
19	170498	172675	contig of	3178	bp	in	length
20	173776	175501	contig of	1726	bp	in	length
21	175602	177711	contig of	2110	bp	in	length
22	177812	180070	contig of	2259	bp	in	length
23	180171	182495	contig of	2123	bp	in	length
24	182394	183405	contig of	1012	bp	in	length
25	183306	184693	contig of	1188	bp	in	length
26	184794	186078	contig of	1285	bp	in	length
27	186179	187203	contig of	1285	bp	in	length

1	30966:	contig of 30966 bp in length
2	30967	31066: gap of 100 bp
3	31067	54248: contig of 23182 bp in length
4	54249	54248: gap of 100 bp
5	54449	68175: contig of 13821 bp in length
6	68176	68275: gap of 100 bp
7	68276	78752: contig of 10477 bp in length
8	78753	78852: gap of 100 bp
9	78853	88875: contig of 10123 bp in length
10	88876	89075: gap of 100 bp
11	89076	98751: contig of 9676 bp in length
12	98752	98851: gap of 100 bp
13	98852	107804: contig of 8953 bp in length
14	107805	107904: gap of 100 bp
15	107905	116564: contig of 8460 bp in length
16	116565	116466: gap of 100 bp
17	116466	125558: contig of 9094 bp in length
18	125559	125658: gap of 100 bp
19	125659	130702: contig of 5044 bp in length
20	130703	130803: gap of 100 bp
21	130803	135910: contig of 5108 bp in length
22	135911	136010: gap of 100 bp
23	136011	142273: contig of 6263 bp in length
24	142274	142373: gap of 100 bp
25	142374	149281: contig of 6908 bp in length
26	149282	149381: gap of 100 bp
27	149382	155493: contig of 6112 bp in length
28	155494	155593: gap of 100 bp
29	155594	161282: contig of 5689 bp in length
30	161283	161382: gap of 100 bp
31	161383	165549: contig of 4267 bp in length

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 19:13:11 ; Search time 102.16 Seconds

(without alignments)
2481.341 Million cell updates/sec

Title: US-09-700-397-1

Sequence: 1032
1 atgaacacatccagccaa.....tgcacgtcttcaattt 1032

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066.

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	340.6	33.0	924	2	US-08-414-657D-7 Sequence 7, Appl
2	340.6	33.0	977	2	US-08-414-657D-1 Sequence 1, Appl
3	340.6	33.0	1014	2	US-08-414-657D-5 Sequence 5, Appl
4	340.6	33.0	1238	2	US-08-414-657D-3 Sequence 3, Appl
5	338.6	32.8	861	2	US-08-414-657D-9 Sequence 9, Appl
6	338.6	32.8	912	2	US-08-414-657D-6 Sequence 6, Appl
7	337.4	32.7	945	2	US-08-414-657D-8 Sequence 8, Appl
8	333.8	32.3	861	2	US-08-414-657D-10 Sequence 10, Appl
9	303.6	29.4	756	2	US-08-414-657D-17 Sequence 17, Appl
10	298.2	28.9	756	2	US-08-414-657D-18 Sequence 18, Appl
11	100	9.7	219	2	US-08-414-657D-11 Sequence 11, Appl
12	95.2	9.2	219	2	US-08-414-657D-12 Sequence 12, Appl
13	77.8	7.5	177	2	US-08-414-657D-13 Sequence 13, Appl
14	77.8	7.5	177	2	US-08-414-657D-14 Sequence 14, Appl
15	65.6	6.4	198	2	US-08-414-657D-15 Sequence 15, Appl
16	63.4	6.1	198	2	US-08-414-657D-16 Sequence 16, Appl
17	45.4	4.4	7218	1	US-08-232-463-14 Sequence 14, Appl
18	37	3.6	4092	2	US-08-469-537A-106 Sequence 106, App
19	34.4	3.3	1182	1	US-08-241-943-23 Sequence 23, Appl
20	34.4	3.3	1431	1	US-08-254-357-1 Sequence 1, Appl
21	34.4	3.3	2327	6	5529279-5 Patent No. 5529279
22	34.4	3.3	2327	6	5512669-5 Patent No. 5512669
23	34.4	3.3	4983	1	US-08-472-358-1 Sequence 1, Appl
24	34.4	3.3	4983	5	PCT-US92-05786A-1 Sequence 1, Appl
25	34.4	3.3	4984	1	US-08-687-806-1 Sequence 1, Appl
26	33.8	3.3	1321	1	US-08-809-763-6 Sequence 6, Appl
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28	33.8	3.3	3147	2	US-08-781-802-7 Sequence 7, Appl
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31	33.6	3.3	1176	3	US-08-911-853-34 Sequence 34, Appl
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34	33.6	3.3	17612	3	US-08-911-853-29 Sequence 29, Appl
35	33.6	3.3	17612	4	US-09-479-409-29 Sequence 29, Appl
36	33.6	3.3	17612	4	US-09-479-453-29 Sequence 29, Appl
37	33.4	3.2	1509	1	US-08-115-052-1 Sequence 1, Appl
38	33.2	3.2	1053	2	US-08-414-657D-19 Sequence 19, Appl
39	33.2	3.2	1851	2	US-08-414-657D-20 Sequence 20, Appl
40	33	3.2	1693	3	US-09-320-878-23 Sequence 23, Appl
41	33	3.2	3027	2	US-08-680-326-23 Sequence 23, Appl
42	32.8	3.2	3360	1	US-08-408-093-5 Sequence 5, Appl
43	32.8	3.2	3360	1	US-08-408-420A-5 Sequence 5, Appl
44	32.8	3.2	3360	1	US-08-714-901-5 Sequence 5, Appl
45	32.8	3.2	3360	3	US-08-040-741-5 Sequence 5, Appl

ALIGNMENTS

RESULT 1
US-08-414-657D-7
; Sequence 7, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Lymph System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 924 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1...924
; OTHER INFORMATION:
; US-08-414-657D-7

Query Match 33.0%; Score 340.6; DB 2; Length 924;
 Best Local Similarity 63.3%; Pred. No. 1.2e-93;
 Matches 558; Conservative 0; Mismatches 314; Indels 9; Gaps 2;

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QY 72 tctctccaagagatgcccgtgcaagcgagatgcccacccctcccaagcttggacaa 131
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RESULT 2

US-08-414-657D-1
 ; Sequence 1, Application US/08414657D

; Patent No. 5861283

; GENERAL INFORMATION:

; APPLICANT: Levitt, Pat

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; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESS: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 977 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 2..976
; OTHER INFORMATION:
; US-08-414-657D-1

Query Match 33.0%; Score 340.6; DB 2; Length 977;
Best Local Similarity 63.3%; Pred. No. 1.2e-93;
Matches 558; Conservative 0; Mismatches 314; Indels 9; Gaps 2;

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Query	Match	Best Local Similarity	Score	DB 2	Length	1014
Matches	955	Conservative	0	Mismatches	354	Indels 12; Gaps 3
TELECOMMUNICATION INFORMATION:						
TELEPHONE:	609-520-3214					
TELEFAX:	609-520-3259					
TELEX:						
INFORMATION FOR SEQ ID NO: 5:						
SEQUENCE CHARACTERISTICS:						
LENGTH:	1014 base pairs					
TYPE:	nucleic acid					
STRANDEDNESS:	double					
TOPOLOGY:	Linear					
FEATURE:						
NAME/KEY:	Coding Sequence					
LOCATION:	1...1014					
OTHER INFORMATION:						
US-08-414-657D-5						
Query	72	tctcttccaagagatgcccgtctgcagagcgagatgccacttccccaagtatggaca	131			
Db	66	TCCTCCACAGAGACGCGCCGCTGCGACGCTGTGAT-----TTTAAACCGAGGACGGACAA	119			
Query	132	cgtgaagcgtccggagaggagagcgccacccttaagttgacatttgacaacccggctaac	191			
Db	120	CATCACCGTGAAGGACAGGGGACACGGCCATCTCAAGTGTGTGTGTGAAGACAGAACTC	179			
Query	192	ccggagcgacttgcgttaaacccgcagacacatctctatcttgcgttgggaatgatcaagtgtgct	251			
Db	180	GAAAGGCGCCTGTTGAACCGCCTGCGATCATCTTCGCTGGACAGCAAGATGGTCTCT	239			
Query	252	ggatcctctgcgtgtctctcttcttgagcaaaccccaaacgcagtagatgatgatccaga	311			
Db	240	GGAACCTCGGTTGAGCTGAGAAACGCGCATCTCTGGAAATGACAGCTTCCGATCCGAA	299			
Query	312	cgtgagatggtatgacgagagcccttacaactgtctggtgagacagacaacccaca	371			
Db	300	GGTGGATGTCATATGATGAAGATTCCTACACATGCTCAGTTGACACACATGAGCCCA	359			
Query	372	gaacctaggtgccaactcattgtgcaagatctcccaaatgttagagattcttcaga	431			
Db	360	GACCTCTCAAGTTACTTGATGTGCAAGTTCCACCAAGATCTCCAAATCTCTCCGA	419			
Query	432	tatctccatataatgaagaaatattgacctcaactgcgatagcaactcgtgtagaca	491			
Db	420	TGTCACTGTGAATGAGGACACATGTAACCTGCTGCAATGGCCATANGGCCGCTCGA	479			
Query	492	gacctaggttacttggagacacatctctcccaaacggtgttgcttgtgagtgaagaca	551			
Db	480	ACCTGTTATCACCTGAGAACCTTACACCACTTGGAAGAAATTTGAAGGAGAGAGA	539			
Query	552	atacttggaaattcagggtcataccocggagagtcagggaggaactttagatgtagcgtc	611			
Db	540	ATTATCTGGAGATCTCAAGGCATCACCGGAGAACGTCAGGCAATATGAGTGAAGGCTGC	599			
Query	612	caatgacgtggtccggtgtgtagagagtaaagttcaacgttgaactatccacata	671			
Db	600	CAAGAGAGTCTCTCCGGGATGTCCAACAAATCAAGTCACTGTAATTCACCCAC	659			
Query	672	catttaagaagccaagtgtagagtggtcccggtgggacaaagggagacatctcagtgta	731			
Db	660	CATCAACAGGTTTAAAGACATTAACCCACGACAGACGACAGACTTCCCTCAATATGGA	719			
Query	732	agcttaagaagtcctccctcagagaaattccagtggtgacaagatgacaaaagactatga	791			
Db	720	AGCCTAAGCGGTGCTGCACCTGATCTTTTAAGTGTGACCGGATGACACG---GATAAA	776			
Query	792	aggaagaagaaggtgtaagtggaaaaacagacatttccctccaanaatcatcttcca	851			
Db	777	CAGTGCAAAACGGCCTTGAGATTAAAGACACTGAGGGCCAGTCTCCCTCAGCGTAGACAA	836			

Query Match	33.08;	Score 340.6;	DB 2;	Length 1238;
Best Local Similarity	61.9%;	Pred. No. 1.3e+93;		
Matches 595;	Conservative 0;	Mismatches 354;	Indels 12;	Gaps 3

RESULT 5
US-08-414-657D-9
; Sequence 9, Application US/08414657D
; Patent No. 5861283

QY 780 aagactgaltgaaggaaggaaggytgaagtgaagaaacagaccttccctcacaact 839
Db 684 CAG---GATTAACAGTGCAGGAGGCTTGAAGATTAAGACACTGAGGCGGAGTCCCT 740
QY 840 cactctctcaatgtctctgaatgaatgaatgaatgaatgaatgaatgaatgaatgaat 899
Db 741 GAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 800
QY 900 gctgggag 952
Db 801 GCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 853
RESULT 9
US-08-414-657D-17
; Sequence 17, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 756 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1..756
; OTHER INFORMATION:
; US-08-414-657D-17
Query Match 29.4%; Score 303.6; DB 2; Length 756;
Best Local Similarity 63.5%; Pred. No. 1.7e-82;
Matches 481; Conservative 0; Mismatches 274; Indels 3; Gaps 1;
QY 148 gggag 207
Db 1 GGGAG 60

QY 208 aaccag 267
Db 61 AACGGTTCTGGCATCATTTTGGTGGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 120
QY 268 ctctgaagaac 327
Db 121 CTGGAAGAAAGGAG 180
QY 328 gaagagccttcaac 387
Db 181 GAGGAGTTCCTACACTTGTCTGAGTTCAGACAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 388 ctatgtgtcaagatctcccaaatgtgaagatcttcaagatcttcaagatcttcaag 447
Db 241 TTGATGTGTCAGATCTCCCAAGATCTCCCAAGATCTCCCAAGATCTCCCAAGATCT 300
QY 448 ggaagaacatattagac 507
Db 301 GGCAGCAAGTACCTGT 360
QY 508 agacacatctcccaagcgttgccttgccttgccttgccttgccttgccttgccttgc 567
Db 361 AGACACCTTAC 420
QY 568 ggcataccggag 627
Db 421 GGCATACACAGGAG 480
QY 628 cccgtgtacag 687
Db 481 GCGATGTCAAAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 540
QY 688 ggtacaggtgtcccgag 747
Db 541 AGCAATGAG 600
QY 748 taagcagaattccaggtgtacagagagagagagagagagagagagagagagagagag 807
Db 601 GCACCTGACTTGTGATGT 657
QY 808 aaagtggaaac 867
Db 658 GAGATTAG 717
QY 868 tatggagac 905
Db 718 TAGGCACTACCTGT 755
RESULT 10
US-08-414-657D-18
; Sequence 18, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS

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SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 756 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..756
OTHER INFORMATION:
US-08-414-657D-18

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Query Match      28.9%; Score 298.2; DB 2; Length 756;
Best Local Similarity 63.0%; Pred. No. 7.5e-81;
Matches 478; Conservative 0; Mismatches 278; Indels 3; Gaps 1;

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QY 148 gggagagagcgccacccctcaagtgacactatgacacacgggtacccgggtgctgcta 207
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 GGGAGACGGCCATCCTCAGGTGCTGAGACAGACGACTCGAAGTGGCTGGTGG 60
QY 208 aaccgcagacacccatccctatctgagatgacagtggtgctgaccccgctgtgc 267
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 AACCGCTGTGGATCATCTGCTGAGACGACAGAGTGCTGTGACCCCGGGTTGAG 120
QY 268 ctctcgagacaaccccaacgcagtagacatcgagatccagacgtgagtgtatgac 327
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 121 CTGGAGAAAGCCATGCTCTGGAAATACAGCCTCCGAATCCAGAGGTGATGTATGAT 180
QY 328 gaggagccctcaacacgtgctcggtgagacagacacaccccaagacccctcaagttcac 367
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 161 GAAGGATCTTACACATGCTCAGCTTACGACACGATGAGCCCAAGACCTCTCAAGTTTAC 240
QY 368 ctcatgtgcaagatctcccaaatgtgtagagattcttcagatatctccatgaatgaa 447
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 241 TTGATGTACAAATGTCACAAAGATCCCAACATCTCCTCGGATGTACATGTAAATGAG 300
QY 448 gggacaataatagcctcaactcgtacagaaatgtagaccagagccctacggttacttg 507
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 301 GGCAGCAATGTAACCTGTGCTGATGAGCAATGGGCGCCCTGAACCTGTATCACTGAG 360
QY 508 agacacatctctcccaaaagcgttggcttggtagagaaagaaactatggaattcag 567
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 361 AGACACCTTACACCTGTTGGAAGAAATTTGAAGAGAAATTAATCTGGAATCTTA 420
QY 568 ggcatacccgagagagtagtcaaggagagtagagtagtgcagtcctcaatgagatgagccgc 627
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 421 GGCATCACCGAGGACAGTCAAGGCAATATGATGCAAGGCTGCCAACGAGAGTCTCTCC 480
QY 628 ccggtgtagagagtagaagtgacacgtgaactcaacacatcattcagaagccaag 687
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 481 GCGGATGTCAAAACAAATCAAGTCACTGTAATCCACCCACCATCAGAGATCTAAG 540
QY 688 ggtacaggtgtcccgtaggacaaaaggagacactcaggtgtgaaagcctcagagagccccc 747
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 541 AGCAATGAAACCCACGACAGGACGACAACTTCCCTCAATGTGAAGCTCAGCGGTCCCT 600

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QY 748 tcagcagaattccagtggtgacaaagatgacaaagactgttgaagaaagaagaggtg 807
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 601 GCACCTGACTTGTAGTGATACCGGATGACACAG---GATTAACAGTGCAAAACGGCTT 657
QY 808 aaagtggaaaacagaccttctctcaaaactcaatcttcttcaatgtctctgaatgac 867
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 658 GAGATTAGAGCACTGAGGACCAATCCCTGACGGTGAACAACCTGAGGAAACAC 717
QY 868 tatggaaactacacttggtgcccacaaagactggc 906
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 718 TAGGCAACTATTAATCTGTGTGCTGCAACAGCTCGGC 756

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RESULT 11
US-08-414-657D-11
; Sequence 11, Application US/08414657D
; Patent No. 3661283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESSES:
; ADDRESS: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 219 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1..219
; OTHER INFORMATION:
US-08-414-657D-11

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Query Match      9.7%; Score 100; DB 2; Length 219;
Best Local Similarity 67.0%; Pred. No. 5.2e-21;
Matches 142; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
QY 148 gggagagcgccacccctcaagtgacactatgacaaacgggtacccgggtgctgcta 207
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 GGGAGACAGCCATCCTCAGGTGCTGAGACAGACGACTCGAAGTGGCTGGTGG 60

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[illegible]

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RESULT 12
US-08-414-657D-12
: Sequence 12, Application US/08414657D
: Patent No. 5861283
: GENERAL INFORMATION:
: APPLICANT: Levitt, Pat
: APPLICANT: Pimenta, Aurea
: APPLICANT: Eiszack, Itzhak
: APPLICANT: Zhukarev, Victoria
: TITLE OF INVENTION: Limbic System-Associated Membrane
: TITLE OF INVENTION: Protein and DNA
: NUMBER OF SEQUENCES: 60
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Dechart Price & Rhoads
: STREET: 997 Lenox Drive, Building 3, Suite 210
: CITY: Lawrenceville
: STATE: NJ
: COUNTRY: USA
: ZIP: 08543
: COMPUTER READABLE FORM:
: MEDIUM TYPE: diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/414,657D
: FILING DATE: 31-MAR-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Bloom, Allen
: REGISTRATION NUMBER: 29,135
: REFERENCE/DOCKET NUMBER: 317743-102
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 609-520-3214
: TELEFAX: 609-520-3259
: TELEX:
: INFORMATION FOR SEQ ID NO: 12:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 219 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: FEATURE:
: NAME/KEY: Coding Sequence
: LOCATION: 1...219
: OTHER INFORMATION:
: US-08-414-657D-12

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Query Match 9.2%, Score 95.2; DB 2; Length 219;
 Best Local Similarity 65.6%, Pred. No. 1, 5e-19;
 Matches 139; Conservative 0; Mismatches 73; Indels 0; Gaps

Cy 148 gggagagagcccccactcaagttgactatctgacaacgcggtgcacccggtgtgcctgacta 207
 Db 1 gggagacccgcctccttcacgggtgctgctgacgaacgaacactctgaaatggccctcgatg 60

QY	208	aacgcgcagcaacacactctctatgctcgggaatgacaagctggcctcgatctccctcgctgc	267
Db	61	AACCCCTCTGGCATTCTTCTGGCGACAGCAAGTGGTCTCTGGACCCCTGGGGTTGAG	120
QY	268	ctctcgcgcacaaccccacaacgcagctaacagatcgcagatcccgacgcgtgatgtgatgac	327
Db	121	CTGGGGAAGACGCATCTCTTGAAATACAGGCTTCCCAATCCAGGAAGTGATGTCTATAT	180
QY	328	gagggcccttaacactcgtcgcgtgcagacacga	359
Db	181	GAAAGATCTTACATCACTCTCAAGCTTCAAGACCA	212

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RESULT 13
US-08-414-657D-13
; Sequence 13, Application US/08414657D
; Patent No. 3861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ. ID NO.: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 177 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 1...177
; OTHER INFORMATION:
; US-08-414-657D-13

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Query Match: 7.5%; Score 77.8; DB 2; Length 177;
 Best Local Similarity: 65.0%; P: 0.0; Prd: 2.5e-14;
 Matches: 115; Conservative: 0; Mismatches: 62; Indels: 0; Gaps: 0

448 gggacaatatttagcctcactgcatgacaactgtagaccagaagctaatctgg 507
 1 ggcgacacactgacactctgagctgcatggccacatggccctctctgacacttatacctgg 60

Qy 886 gtggctccacaagctggg 905
||||| |||||||
Db 178 GTGGCTGCCAACAAGCTGGG 197

Search completed: July 11, 2002, 22:53:23
Job time: 13212 sec